A P P E N D I X A

DETAILED COST ESTIMATES FOR CASE STUDY SITES

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APPENDIX A: DETAILED COST ESTIMATES

Appendix A contains detailed cost estimates for the case studies presented in Chapter Three. DC&E used the generic cost estimate tool included and described in Chapter Four to estimate a ball-park range of costs for each district. These cost estimates are approximate only, and are intended to provide other jurisdictions with a general sense of what comparable pedestrian-oriented neighborhoods cost to create and built.

A. Organization

Each case study cost estimate includes an overview worksheet that summarizes the costs by roadway in the district or other major element of the district (such as a pedestrian plaza). Each summary sheet also calculates a total linear foot cost (high and low) for all the pedestrian improvements contained in each pedestrian district case study. The overview worksheet is followed by one worksheet for each roadway or district element, which provides cost estimates for the pedestrian facilities present. The costs listed represent 2005 costs.

B. Assumptions

For each case study cost estimate, the basic roadway infrastructure was assumed to be in place; therefore, the estimates do not include the costs to build the roads themselves, sidewalks or curb and gutter in the estimates. A range of costs for each item located in the pedestrian district is provided as the exact model type and the actual costs are unknown or outdated.

The unit counts for the pedestrian facilities located in the districts are estimates only, based on fieldwork and an examination of aerial photographs of each neighborhood.

In addition, as described in Chapter Three, two of the case study sites (Hacienda Business Park and the Hercules Waterfront District) are places that have the potential to be good pedestrian districts, but have not yet become truly

METROPOLITAN TRANSPORTATION COMMISSION PEDESTRIAN DISTRICTS STUDY

APPENDIX A: DETAILED COST ESTIMATES

walkable environments. In these instances, the case studies not only describe the existing pedestrian infrastructure found in these places, but provide recommendations and directions for future improvements. Therefore, the cost estimates for those two sites includes costs for the recommended future improvements contained in the case studies.

Finally, it is important to note that in each case study cost estimate, the greatest expense tends to be the installation of traffic signals at roadway intersections. The installation of traffic signals is typically driven by vehicular traffic demands and not pedestrian needs; therefore the actual costs to create a district with an effective and rich network of pedestrian facilities may be cheaper than these cost estimates suggest.

	Low	High
Adams Point Pedestrian District 24,222 LF		
Grand Avenue	\$3,207,110	\$5,214,780
Harrison Avenue	\$2,789,858	\$3,366,146
MacArthur	\$1,129,188	\$1,335,885
Bay Street	\$476,586	\$673,641
Orange Street	\$470,453	\$504,484
Euclid and Perkins	\$1,065,750	\$1,129,840
Van Buren and Adams	\$1,425,408	\$1,486,076
Lee Street	\$385,707	\$404,565
TOTAL ESTIMATED COST	\$10,950,059	\$14,115,417
COST PER LINEAR SQUARE FOOT	\$452	\$583

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Adams Point Case Study Cost Estimate

Item Description Qty. Grand Avenue: 4200 LF Pedestrian Infrastructure Crosswalk: Striping 1,600 Pedestrian Push Button Treatments 28 Signalized Intersections 9 Wheelchair Ramps (including warning surface half domes) 32 Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24 Day Maintenance 24 Edit Only Maintenance 2	LF EA LS EA	\$3 \$1,300 \$125,000	Unit \$ \$6 \$1,300	Price	Price	Subtotal	Subtotal	Notes & Assumptions
Pedestrian Infrastructure Crosswalk: Striping 1.600 Pedestrian Push Button Treatments 28 Signalized Intersections 9 Wheelchair Ramps (including warning surface half domes) 32 Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24" box Trees 240 60 Day Maintenance 2	EA LS EA LS	\$1,300 \$125,000		\$4.800		\$1,525,000		
Pedestrian Infrastructure Crosswalk: Striping 1.600 Pedestrian Push Button Treatments 28 Signalized Intersections 9 Wheelchair Ramps (including warning surface half domes) 32 Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24" box Trees 240 60 Day Maintenance 2	EA LS EA LS	\$1,300 \$125,000		\$4.800		\$1,525,000	4950400950055250565300	
Crosswalk: Striping	EA LS EA LS	\$1,300 \$125,000		\$4.800	**************************************	31.J4J4UUU	P3 030 C00	
Pedestrian Push Button Treatments 28 Signalized Intersections 9 Wheelchair Ramps (including warning surface half domes) 32 Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24° 60 Day Maintenance 24	EA LS EA LS	\$1,300 \$125,000		\$4.800			32,033,000	
Signalized Intersections 9 Wheelchair Ramps (including warning surface half domes) 32 Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24° box Trees 240 60 Day Maintenance 2	LS EA LS	\$125,000	\$1,300		\$9,600			Standard striping
Wheelchair Ramps (including warning surface half domes) 32 Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24° box Trees 240 60 Day Maintenance 2	EA LS			\$36,400	\$36,400			ounded stepting
Crosswalk Countdowns 9 Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24" box Trees 240 60 Day Maintenance 2	LS	63 (00	\$250,000	\$1,125,000	\$2,250,000			THE PARTY OF THE P
Pedestrian-Level Street Lights 68 Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24" box Trees 240 60 Day Maintenance 2		\$2,600	\$3,000	\$83,200	\$96,000	•		
Standard Street Light (Cobra Head) 5 Pedestrian Amenities 24" box Trees 240 60 Day Maintenance 2	F.,	\$2,400	\$6,400	\$21,600	\$57,600			
Pedestrian Amenities 24" box Trees 240 60 Day Maintenance 2	EA	\$3,000	\$5,000	\$204,000	\$340,000			Estimated at 100' apart along 3600LF of roadway, minus 5 standards at highway.
24" box Trees 240 60 Day Maintenance 2	EA	\$10,000	\$10,000	\$50,000	\$50,000			
24" box Trees 240 60 Day Maintenance 2								
60 Day Maintenance 2		80 (80 (80 (8)				\$686,800	\$756,800	
60 Day Maintenance 2	<u> </u>		***************************************					
	EA	\$1,820	\$1,820	\$436,800	\$436,800			
	LS	\$3,000	\$4,000	\$6,000	\$8,000			
Bus Shelter 8	EA	\$5,000	\$10,000	\$40,000	\$80,000			
Bus Concrete Pad 8	EA	\$6,500	\$6,500	\$52,000	\$52,000			
	EA	\$800	\$1,500	\$32,000	\$60,000		******	Estimated 2 per block
Tree Well 240	EA	\$500	\$500	\$120,000	\$120,000			
	ļ							
	<u> </u>							
							** -**	
				100/ NA-1	Subtotals: ilization cost:	\$2,211,800	\$3,596,400	
					,	\$221,180	\$359,640	
					Contingency:	\$442,360	\$719,280	
TOTAL ANTICIPATED COST				137	6 Design Fee:	\$331,770 \$3,207,110	\$539,460 \$5,214,780	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price				Notes & Assumptions
Harrison Street: 3640 LF					***************************************	1221 225 225 225 225 225 225 225 225 225			
Pedestrian Infrastructure		element.					\$1,446,040	\$1,834,480	
Crosswalk: Striping									
Signage Striping	480	LF	\$3	\$6	\$1,440	\$2,880			
Signalized Intersections	24	EA	\$300	\$400	\$7,200				
Wheelchair Ramps	3	LS	\$125,000	\$250,000	\$375,000				
	24	EA	\$2,600	\$3,000	\$62,400	\$72,000	***************************************		
Standard Street Light (Cobra Head)	100	EA	\$10,000	\$10,000	\$1,000,000	\$1,000,000			
Pedestrian Amenities									
							\$478,000	\$487,000	
24" box Trees	200	EA	\$1.820	\$1,820	\$364,000	6374.000			
60 Day Maintenance	2	LS	\$3,000	\$4,000		\$364,000			Estimated at 50' apart, but fairly inconsistent over 5000LF
Trash Cans	10	EA .	\$3,000	\$1,500	\$6,000	\$8,000			
Tree Well	200	EA	\$500	\$500	\$8,000	\$15,000			
	200	LA	\$300	2000	\$100,000	000,0018		<u> </u>	
		L							
							61 031 040	20.000	
					100/ 84-1-	Subtotals: ilization cost:	\$1,924,040		
						ş	\$192,404	\$232,148	
						Contingency:	\$384,808	,	
TOTAL ANTICIPATED COST					137	6 Design Fee:	\$288,606	40000000000000000000000000000000000000	1
		materités:					\$2,789,858	\$3,366,146	
544Cont Estimate - Land J. 1000			SF	Square Foot	LS	Lump Sum			

LF Linear Foot

EA Each

***Cost Estimates based on 2005 prices

Adams Point Case Study Cost Estimate

									7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price			High Subtotal	Notes & Assumptions
Macarthur Blvd. 3200 LF									
Pedestrian Infrastructure							\$212,750	\$344,300	
Crosswalk: Striping	250	LF	\$3	\$6	\$750	\$1,500			
Signalized Intersections	1	LS	\$125,000	\$250,000	\$125,000	\$250,000			Grand Avenue and Oakland Ave.
Signage	2	EA	\$300	\$400	\$600	\$800			
Standard Street Light (Cobra Head)	5	EA	\$10,000	\$10,000	\$50,000	\$50,000			
Wheelchair Ramps (including warning surface half domes)	14	EA	\$2,600	\$3,000	\$36,400	\$42,000			
Pedestrian Amenities		a iman		Statistical reservoir		22 22 22 25 26 26 26 26	landakin pestiniaksi kutinia		
redestrian Amenities						39 00 69 08 10	\$566,000	\$577,000	
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bus Concrete Pad	2	ΕA	\$6,500	\$6,500	\$13,000	\$13,000			
Bus Shelter	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			
Planting along tree strip at the west side	60,000	SF	\$9	\$9	\$540,000	\$540,000			
						Subtotals:	\$778,750	S921,300	
					10% Mol	oilization cost:	\$77,875	\$92,130	
					20%	Contingency:	\$155,750	S184,260	
NOTE: DOZIE GROVE O DOTE DE ROMANTO DE COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE LA COMPANIO DE	FG(worsen)	E			159	% Design Fee:	\$116,813	\$138,195	
TOTAL ANTICIPATED COST							\$1,129,188	\$1,335,885	

SF Square Foot

LS Lump Sum

EA Each

LF Linear Foot

***Cost Estimates based on 2005 prices

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Adams Point Case Study Cost Estimate

tem Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	-	Low Subtotal	3	
3ay Street: 750 LF		- Contract of the Contract of			AVV (120 (120 (120 (120 (120 (120 (120 (120		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10.000 00.000 00.000 00.000	и и подрагати и под от под образования в принимення в принисти и под от под от под от под от под от под от под Принителей и под от
Pedestrian Infrastructure							\$278,500	\$413,400	
Prosswalk: Striping	300	LF	\$3	\$6	\$900	\$1,800			Standard
Landscaped Median	670	LF	\$200	\$ 400	\$134,000	\$268,000			
Signage	12	EA	\$300	\$300	\$3,600	\$3,600			Stop signs and directional
Standard Street Light (Cobra Head)	14	EA	\$10,000	\$10,000	\$140,000	\$140,000			Assumed 1 every 100 LF on both sides of street for 750 LF
Pedestrian Amenities							\$50,180	\$51,180	
24" Box Trees	24	EA.	\$1,820	\$1,820	\$43,680	\$43,680			Counted on aerial actual number of trees in median and sidewalk
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000				
Free Well	7	EA	\$500	\$500	\$3,500	\$3,500			
						Subtotals:	\$328,680	\$464,580	
					10% Mol	ilization cost:	\$32,868	\$46,458	
					20%	oilization cost: Contingency: Design Fee:	\$32,868 \$65,736	\$46,458 \$92,916	4

SF Square Foot

LS Lump Sum

LF Linear Foot

***Cost Estimates based on 2005 prices

Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price		Low Subtotal		
Orange Street: 1800 LF	Atternment / //	anzeneren	(Volumenter region)	SEASONA IGADAY - SA A BA	1777 1130 1230 1230 1230 1230 1230 1230 1230	ZAL MZGIZIBU NA ZALIZA			
Pedestrian Infrastructure							\$265,770	\$288,240	
		<u> </u>							
Bulbout (LF curb, sf Concrete, wheelchair access, demo)	l	-	\$15,000.00	\$25,000,00	\$15,000	\$25,000			Pork Chop at Harrison Intersection
Crosswalk: Striping	290	LF	\$3	\$6	\$870	\$1,740			Standard
Signage	15	EA	\$300	\$400	\$4,500	\$6,000			Stop sign
Speedbumps	3	EA	\$3,000	\$4,500	\$9,000	\$13,500			
Standard Street Light (Cobra Head)	20	EA	\$10,000	\$10,000	\$200,000	\$200,000			
Wheelchair Ramps	14	EA	\$2,600	\$3,000	\$36,400	\$42,000			
Pedestrian Amenities							\$58,680	\$59,680	
24" box Trees	24	EA	\$1,820	\$1,820	\$43,680	\$43,680			Estimated count from aerial
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Est.sq footage of landscape area, tree maintenance over 1/2 mile of road
Tree Well	24	EA	\$500	\$500	\$12,000	\$12,000			Includes saw cut of 5' x5' hole, 2.5 cy amended soil, concrete demo, hauling
									, and a second control to the second control
	······························								
						Subtotals:	\$324,450	\$347,920	
					10% Mol	ilization cost:	\$32,445	\$34,792	
					20%	Contingency:	\$64,890	\$69,584	
						% Design Fee:	\$48,668		
TOTAL ANTICIPATED COST			10.020.001.000.1				\$470,453	Classic of Manhot Marine	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$		High Price		High Subtotal	i e
Euclid Avenue and Perkins Avenue: 5220 LF									
Pedestrian Infrastructure							\$735,000	\$779,200	
Crosswalk: Striping	600	LF	\$3	\$6	\$1,800	\$3,600		••••	Standard
Signage	24	EA	\$300	\$400	\$7,200	\$9,600			Stop signs and other
Speedbumps	8	EA	\$3,000	\$4,500	\$24,000	\$36,000			
Standard Street Light (Cobra Head)	52	EA	\$10,000	\$10,000	\$520,000	\$520,000			Assumed standard street light one side of street every 100 LF
Wheelchair Ramps	70	EA	\$2,600	\$3,000	\$182,000	\$210,000			36 opportunities on Perkins, 34 opportunities on Euclid
		·	MO MININE						
						Subtotals:	\$735,000		4
						ilization cost:	\$73,500		4
						Contingency:	\$147,000	-	1
TOTAL ANTICIPATED COST		T			159	6 Design Fee:	\$110,250	\$116,880	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price		High Subtotal	Notes & Assumptions
Van Buren and Adams: 4212LF									
Pedestrian Infrastructure	1011110111			a con Ville nel 181	(a)		\$491,240	\$507,280	
),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18150.9194194540596722555731311	Tabbigara dan sakaran dan dan dan dan dan dan dan dan dan d	(1))/(2 43×244	JUNIAL GU	
Crosswalk: Striping	280	LF	\$3	\$6	\$840	\$1,680			Standard
Signage	24	EA	\$300	\$400	\$7,200	\$9,600			
Standard Street Light (Cobra Head)	40	EA	\$10,000	\$10,000	\$400,000	\$400,000			Assumed one every 100 LF on one side of road.
Wheelchair Ramps (including warning surface pavers)	32	EA	\$2,600	\$3,000	\$83,200	\$96,000			Assumed one overy too Er on one side of toad.
Pedestrian Amenities	0.00	1000.0	100 190 100 0		in de die suit		\$491,800	\$517,600	
24" box Trees	200	EA	\$1,820	\$1,820	\$364,000	\$364,000			Estimated every 40 LF on both sides of street
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Landscaped Median	124	LF	\$200	\$400	\$24,800	\$49,600			
Tree Well	200	EA	\$500	\$ 500	\$100,000	\$100,000			
	<u> </u>	<u> </u>							
						Subtotals:	\$983,040	\$1,024,880	
					10% Mob	ilization cost:	\$98,304	\$102,488	
					20%	Contingency:	\$196,608	\$204,976	
		l National Control			15%	6 Design Fee:	\$147,456	\$153,732	
POTAL ANTICIPATED COST		u dini					\$1,425,408	\$1,486,076	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

MTC Pedestrian Districts Study Adams Point Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$		High Price		High Subtotal	
									Assumptions
Lee Street: 1200 LF (\$322-\$338 LF)		***************************************						A	
Pedestrian Infrastructure							\$266,005	\$279,010	
Crosswalk: Striping	135	LF	\$3	\$6	\$405	\$810			Standard
Signage	8	EA	\$300	\$400	\$2,400	\$3,200			
Speedbumps	2	EA	\$3,000	\$4,500	\$6,000	\$9,000			
Standard Street Light (Cobra Head)	20	EA	\$10,000	\$10,000	\$200,000	\$200,000	,		
Wheelchair Ramps (including warning surface pavers)	22	EA	\$2,600	\$3,000	\$57,200	\$66,000		·····	
						Subtotals:	\$266,005	\$279,010	
					10% Mob	ilization cost:	\$26,601	\$27,901	
					20%	Contingency:	\$53,201	\$55,802	
					159	6 Design Fee:	\$39,901	\$41,852	
TOTAL ANTICIPATED COST			(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	elitratio del 180		188 BB 181 BB	\$385,707	\$404,565	

	Low	High
Hercules Waterfront Pedstrian District 6,000 L	F	
Railroad Avenue	\$2,465,145	\$2,905,510
Sycamore Avenue	\$762,642	\$871,786
Bay Trail	\$850,063	\$892,113
TOTAL ANTICIPATED COST	\$4,077,850	\$4,669,409
COST PER LINEAR SQUARE FOOT	S680	\$778

Hercules Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	
Railroad Avenue: 2100 LF		Historia							
Pedestrian Infrastructure		Partie in					\$1,442,300	\$1,745,000	
Asphaltic Concrete	85,000	SF	\$9	\$9	\$765,000	\$765,000			
Chicanes	1	LS	\$15,000	\$35,000	\$15,000	\$35,000			
Concrete Curb and Gutter Installation	4,500	LF	\$30	\$40	\$135,000	\$180,000			
Concrete Paving Sidewalk (scored)	22,500	SF	\$8	\$10	\$180,000	\$225,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Street Lights	90	EA	\$3,000	\$5,000	\$270,000	\$450,000			Estimated at 50' apart
Signage	15	EA	\$300	\$400	\$4,500	\$6,000			The state of the s
Wheelchair Ramps (w/ warning surface half domes)	28	EA	\$2,600	\$3,000	\$72,800	\$84,000			
Pedestrian Amenities		1200			16 16 15 65		\$257,800	\$258,800	
24" box Trees	140	EA	\$1,820	\$1,820	\$254,800	\$254,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
	L								
					10% Mob	Subtotals:	\$1,700,100 \$170,010	\$2,003,800 \$200,380	
						Contingency:	\$340,020	***	
TOTAL ANTICIPATED COST		1 2000			13%	6 Design Fee:	\$255,015 \$2,465,145	\$300,570 \$2,905,510	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Hercules Case Study Cost Estimate

tem Description	Qty.	Unit	Low Unit \$	High Unit \$					
Sycamore Avenue: 900LF									
Pedestrian Intrastructure							\$457,440	\$531,712	
Asphaltic Concrete	26,928	SF	59	\$9	\$242,352	\$242,352			
Concrete Curb and gutter Installation	1,600	LF	\$30		\$48,000				Roadway asphalt
Concrete Paving Sidewalk (scored)	6.336	SF	\$8	\$10	\$50,688				Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Street Lights	18	EA	\$3,000	\$5,000	\$54,000	\$90,000			Square root control of sidewark only
Wheelchair Ramps	24	EA	\$2,600	\$3,000	\$62,400				
Pallylagaryuponphisarangup parsansanan jayun amaanii a		- Record to open	400						
Pedestrian Amenities						10 St. 10 St.	\$68,520	\$69,520	
4" box Trees	36	EA	\$1,820	\$1,820	\$65.520	\$65,520			
0 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
				ALL	· · · · · · · · · · · · · · · · · · ·	,			
						Subtotals:	\$525,960	\$601,232	
					10% Mob	ilization cost:	\$52,596	\$60,123	
						Į.		***************************************	
					20%	Contingency:	\$105,192	\$120,246	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Hercules Case Study Cost Estimate

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price		High Subtotal	
		A.M. A							
Bay Trail: 3000LF Pedestrian Infrastructure		·		60 (6) (60 (60 (60 (60)					
r edestrian intrastructure		24,658,00					\$561,250	\$567,750	
Asphaltic Concrete	60,000	SF	\$9	\$9	\$540,000	\$540,000			200015 00 00 0
Bollards	15	EA	\$500	\$750	\$7,500	\$11,250			Assumes 3,000 LF of Bay Trail adjacent and beyond study area.
Crosswalk: Typical Striping	250	LF	\$3	\$6	\$7,300 \$750	\$11,230 \$1,500			
Wheelchair Ramps (w/ warning surface half domes)	5	EA	\$2,600	\$3,000	\$13,000	\$1,300			
	 	1 2/1	3=,000	\$3,000	\$15,000	000,016			
Pedestrian Amenities							\$25,000	\$47,500	
								93.130.09	
60 Day Maintenance	ī	LS	\$3,000	\$4,000	\$3,000	\$4,000			Est on sq footage of landscape area, tree maintenance over 1/2 mile of road.
Bench (6' Wide, includes installation)	10	EA	\$1,500	\$3,000	\$15,000	\$30,000			The state of the s
Bike Racks (including installation)	5	EA	\$600	\$1,200	\$3,000	\$6,000			
Trash Cans	5	EA	\$800	\$1,500	\$4,000	\$7,500	-		
	<u> </u>								
			-						
						Subtotals:	\$586,250	\$615,250	
					10% Mob	ilization cost:	\$58,625	\$61,525	
						Contingency:	\$117,250	\$123,050	
	1451503359303444	Fayestastas	kannan sasaka askeste		159	6 Design Fee:	\$87,938	\$92,288	
TOTAL ANTICIPATED COST							\$850,063	\$892,113	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

	Low	High
Telegraph Avenue Pedestrian District Study 5800 LF		
Telegraph Avenue	\$2,099,925	\$3,167,473
Bancroft Avenue	\$1,716,655	\$2,021,010
Durant Avenue	\$552,595	\$759,075
Channing Way	\$355,453	\$375,666
Haste Street	\$354,670	\$374,100
Dwight Way	\$420,645	\$444,280
TOTAL ANTICIPATED COST	\$5,499,943	\$7,141,604
COST PER LINEAR SQUARE FOOT	\$948	\$1,231

Cost Estimating Template

Description	Qty.	l lmit	Low Unit \$	High Unit \$	Low Price	High Price	Low	High	
Description	LULY.	Unit	Unit \$	Onit \$	Price	Price	Subtotal	Subtotal	Notes & Assumptions
Telegraph Avenue: 1360 LF		101211-1022							
Pedestrian Infrastructure							\$971,000	\$1,636,000	
			A		VII. VOLSKI (AMILIA 1915)	With the 100 A COUNTY & 27 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		>>====================================	
Automatic Pedestrian Detection	20	EA	\$500	\$1,000	\$10,000	\$20,000			
Crosswalk Countdowns	5	LS	\$2,400	\$6,400	\$12,000	\$32,000			
Pedestrian Push Button Treatments	20	EA	\$1,300	\$1,300	\$26,000	\$26,000			
Signage	20	EΑ	\$300	\$400	\$6,000	\$8,000			
Signalized Intersections	5	LS	\$125,000	\$250,000	\$625,000	\$1,250,000			Per intersection
Standard Street Light (Cobra Head)	24	EA	\$10,000	\$10,000	\$240,000	\$240,000			6 lights per block for 4 blocks
Wheelchair Ramps (w/ warning surface half domes)	20	EA	\$2,600	\$3,000	\$52,000	\$60,000			
Pedestrian Amenities							\$477,224	\$548,464	
24" box Trees	112	EA	\$1,820	\$1,820	\$203,840	\$203,840			20 trees per block for 4 blocks
60 Day Maintenance	ı	LS	\$3,000	\$4,000	\$3,000	\$4,000		·	
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			
Bus Concrete Pad	4	EA	\$6,500	\$6,500	\$26,000	\$26,000			
Bus Shelter	4	EΑ	\$5,000	\$10,000	\$20,000	\$40,000		•	
Crosswalk: Permeable Paving- Brick	2,048	SF	\$13	\$13	\$26,624	\$26,624			
Newsracks	8	EΑ	\$4,000	\$6,000	\$32,000	\$48,000			Includes a bank of 4-6 newspaper racks. 2 per block
Street Pole Banners	24	EA	\$400	\$600	\$9,600	\$14,400			Assumes standard street light pole already installed cost includes brackets and 2 band
Trash Cans	24	EA	\$800	\$1,500	\$19,200	\$36,000			6 per block
Tree Grates includes frame (4'x4')	112	EA	\$680	\$750	\$76,160	\$84,000			
Tree Well	112	EA	\$500	\$500	\$56,000	\$56,000			
	1								

						Subtotals:	\$1,448,224	\$2,184,464	
					10% Mob	ilization cost:	\$144,822	\$218,446	{
					20%	Contingency:	\$289,645	\$436,893	{
						6 Design Fee:	\$217,234	\$327,670	
TOTAL ANTICIPATED COST				an da an an		á a sa sa sa	\$2,099,925	\$3,167,473	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

Telegraph Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	
					9, 31, 40, 52, 60	100 12 15 15			
Bancroft Avenue: 1800LF					TENTH PROPERTY OF THE PARTY OF	The state of the s		**************************************	
Pedestrian Infrastructure							\$895,400	\$1,053,600	
									,
Automatic Pedestrian Detection	2	EA	\$500	\$1,000	\$1,000	\$2,000			
Crosswalk Countdowns	1	LS	\$2,400	\$6,400	\$2,400	\$6,400			
Crosswalk (In Pavement Flashers)	1	LS	\$100,000	\$120,000	\$100,000	\$120,000			
Signage (Post and Standard Sign vs. High Visibility)	18	EA	\$300	\$400	\$5,400	\$7,200			
Signalized Intersections	1	LS	\$125,000	\$250,000	\$125,000	\$250,000		****	
Standard Street Light (Cobra Head)	62	EA	\$10,000	\$10,000	\$620,000	\$620,000			Poles approx, every 80'
Wheelchair Ramps	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Pedestrian Amenities		JIST N					\$288,500	\$340,200	
						· · · · · · · · · · · · · · · · · · ·			
24" box Trees	80	EA	\$1,820	\$1,820	\$145,600	\$145,600			Estimated every 30' but fairly inconsistent.
60 Day Maintenance	ı	LS	\$3,000	\$4,000	\$3,000	\$4,000			- Cartain y modification.
Bike Racks (including installation)	16	EA	\$600	\$1,200	\$9,600	\$19,200			2 per block
Bus Concrete Pad	3	EA	\$6.500	\$6,500	\$19,500	\$19,500		***************************************	2 ps. Cross
Bus Shelter	3	EA	\$5,000	\$10,000	\$15,000	\$30,000			
Bollards	10	EA	\$500	\$750	\$5,000	\$7,500			
Crosswalk: Permeable Paving- Brick	400	SF	\$13	\$13	\$5,200	\$5,200		***************************************	
Street Pole Banners	62	EA	\$400	\$600	\$24,800	\$37,200	***************************************		Assumes standard street light pole already installed cost includes brackets and 2 banne
Trash Cans	8	EA	\$800	\$1.500	\$6,400	\$12,000			- manner surface right pole arready aistance cost mendes brackets and 2 panns
Tree Grates includes frame (4'x4')	80	EA	\$680	\$750	\$54,400	\$60,000			
					22 1,100	333,300			
		<u> </u>							
						Subtotals:	\$1,183,900	\$1,393,800	1
					10% Mob	ilization cost:	\$118,390		4

Subtotals:	\$1,183,900	\$1,393,800
10% Mobilization cost:	\$118,390	\$139,380
20% Contingency:	\$236,780	\$278,760
15% Design Fee:	\$177,585	5209,070
TOTAL ANTICIPATED COST	\$1,716,655	\$2,021,010

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Telegraph Avenue Case Study Cost Estimate

Item Description	Qtv	Unit	Low Unit \$	High Unit \$	Low Price				
					unit and a second	rice	Subtotal	Subtotai	Notes & Assumptions
Durant Avenue: 660LF						***************************************			
Pedestrian Infrastructure		Differe	1100 (B) (B)	ong katalah da			\$244,000	\$375,800	
Crosswalk Countdowns	1	LS	\$2,400	\$6,400	\$2,400	\$6,400			
Pedestrian Push Button Treatments	2	EA	\$1,300	\$1,300	\$2,600	\$2,600			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Signalized Intersections	1	LA	\$125,000	\$250,000	\$125,000	\$250,000			
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street.
Wheelchair Ramps (w/ warning surface half domes)	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			25 apart of ooth sides of street.
Pedestrian Amenities		NIE K			160 160 E41 10H 11		\$137,100	\$147,700	
24" box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks	1 2	EA	\$600	\$1,200	\$1,200	\$2,400			
Bus Concrete Pad	1	EA	\$6,500	\$6,500	\$6,500	\$6,500			
Trash Cans	8	EA	5800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	EA	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000			
1000									
					······				The state of the s
						Subtotals:	\$381,100	\$523,500	
					10% Mob	ilization cost:	\$38,110	\$52,350	
					20%	Contingency:	\$76,220	\$104,700	
	I Brooker van een van	1 80000 0000				6 Design Fee:	\$57,165	\$78,525	
TOTAL ANTICIPATED COST		N G					\$552,595	\$759,075	

Telegraph Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	
Channing Way: 660LF									
Pedestrian Infrastructure	100 miles 10						\$114,540	\$117,880	
				200000000000000000000000000000000000000	AS CONTRACTOR CONTRACT	VSF4200829417097664844	HILINE SERVINGERS	W111,000	racecessure pages and her exercises exercises the exercises and exercises and exercise exercises and exercises
Crosswalk: Typical Striping (Zebra)	180	LF	\$3	\$6	\$540	\$1,080			
Signage	12	EA	\$300	\$ 400	\$3,600	\$4,800			, respectively.
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street.
Wheelchair Ramps	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			
Pedestrian Amenities		1000					\$130,600	\$141,200	
		ļ							
24" box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks (including installation)	2	EA	\$600	\$1,200	\$1,200	\$2,400			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	EA	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000	,,,,,,,		
	<u> </u>								
						ı		***	
						Subtotals:	\$245,140		
						ilization cost:	\$24,514	\$25,908	
						Contingency:	\$49,028	\$51,816	
TOTAL ANTIODATED COST	t can be a first	Distance of the second	100000000000000000000000000000000000000	usianus automaticus automaticus	15%	6 Design Fee:	\$36,771	\$38,862	
TOTAL ANTICIPATED COST		1000-16	adije (be (de d	somo can standa.	Girdinaka dia m		\$355,453	\$375,666	

Telegraph Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	
				Oint 4	THE WAR	FIICE	Subtotal	Subtotal	Notes & Assumptions
Haste Street: 660LF	WITH THE PARTY OF								
Pedestrian Infrastructure							\$114,000	\$116,800	
	<u> </u>	<u> </u>							
Signage (Post and Standard Sign vs. High Visibility)	12	EΑ	\$300	\$400	\$3,600	\$4,800			
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street.
Wheelchair Ramps (w/ warning surface half domes)	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			
	on over the following								
Pedestrian Amenities		i itali					\$130,600	\$141,200	នេះនេះមានការប្រជាពលរបស់នេះបានប្រជាពលនេះបានការប្រជាពលនេះបានប្រជាពលនេះបានប្រជាពលនេះបានប្រជាពលនេះបានប្រជាពលនេះបាន
	ļ								
24" Box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks	2	EA	\$600	\$1,200	\$1,200	\$2,400			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	ÊΑ	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000			
	<u> </u>								
						Subtotals:	\$244,600	\$258,000	
					10% Mob	ilization cost:	\$24,460	\$25,800	
					20%	Contingency:	\$48,920	\$51,600	
					15%	∕a Design Fee:	\$36,690	\$38,700	
	1000000				110000000000000000000000000000000000000		\$354,670	\$374,100	

Telegraph Avenue Case Study Cost Estimate

Item Description	Q4.		Low	High	Low	High	Low	High	
item description	Qty.	Unit	Unit \$	Unit \$	Price	Price	Subtotal	Subtotal	Notes & Assumptions
Dwight Way: 660LF									
Pedestrian Infrastructure							\$122,100	\$127,800	
						TATION IN THE BUSINESS OF THE PARTY OF THE P			
Concrete Curb and Gutter Installation (for Pedestrian Island	260	LF	\$30	\$40	\$7,800	\$10,400			
Crosswalk: Typical Striping (Zebra)	100	LF	\$3	\$6	\$300	\$600			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			
Standard Street Light (Cobra Head)	10	EA	\$10,000	\$10,000	\$100,000	\$100,000			Estimated 100'-120' apart on both sides of street.
Wheelchair Ramps (w/ warning surface half domes)	. 4	EA	\$2,600	\$3,000	\$10,400	\$12,000			
\$100H034(57-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-							,		
Pedestrian Amenities		0 0.00	ene en en e				5168,000	\$178,600	en as actività de la companya de la
24" Box Trees	40	EA	\$1,820	\$1,820	\$72,800	\$72,800			
60 Day Maintenance	ı	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bike Racks (including installation)	2	EA	\$600	\$1,200	\$1,200	\$2,400		***************************************	
Crosswalk: Permeable Paving- Brick	800	SF	\$13	\$13	\$10,400	\$10,400			Includes demo of existing asphaltic concrete and aggregate base.
Planting at Pedestrian Island	3,000	SF	\$9	\$9	\$27,000	\$27,000			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000			
Tree Grates includes frame (4'x4')	40	EA	\$680	\$750	\$27,200	\$30,000			
Tree Well	40	EA	\$500	\$500	\$20,000	\$20,000			

							Ī		
						Subtotals:	\$290,100	\$306,400	
					10% Mob	ilization cost:	\$29,010	\$30,640	
					20%	Contingency:	\$58,020	\$61,280	
						6 Design Fee:	\$43,515	\$45,960	
TOTAL ANTICIPATED COST	isinasnii:	ding	nigania diping	(4)(0)(0)			\$420,645	\$444,280	

	Low	High
Fruitvale BART Station TOD Case Study 2330 LF		
International Avenue	\$4,067,446	\$6,748,286
12th Avenue	\$1,199,411	\$1,509,537
Avenida de la Fuente	\$510,052	\$677,643
Fruitvale Village	\$626,371	\$893,606
TOTAL ANTICIPATED COST	\$6,403,280	\$9,829,072
COST PER LINEAR SQUARE FOOT	\$2,748	\$4,218

Fruitvale BART Station TOD Cost Estimate

***************************************	1	***************************************	Low	High	Low	High	Low	High	
Item Description	Qty.	Unit	1			Price	Subtotal	Subtotal	Notes & Assumptions
								el cultural de la compa	
International Boulevard: 650LF						The state of the s	7.5.00.00	Assert	
Pedestrian Infrastructure							\$1,521,760	\$2,811,240	
									and the state of t
Audible Pedestrian Crossing Cues	3	LS	\$10,400	\$10,400	\$31,200	\$31,200			
Automatic Pedestrian Detection	3	EA	\$500	\$1,000	\$1,500	\$3,000			
Bulbout (LF curb, sf Concrete, wheelchair access, demo)	8	EA	\$15,000.00	\$25,000.00	\$120,000	\$200,000	**********		Based on lump sum cost for 6' wide bulbout extension, and 20' length.
Concrete Curb and Gutter Installation	624	LF	\$30	\$40	\$18,720				Installation for 312 LF of median (2 sides)
Concrete Paving (scored) Median	6,500	SF	\$8	\$10	\$52,000	\$65,000			312 LF of median 15' wide
Crosswalk Countdowns	8	LS	\$2,400	\$6,400	\$19,200				J. S. D. C. Heddill 17 Trice
Crosswalk: Typical Striping	380	LF	\$3	\$6	\$1,140	\$2,280			
Pedestrian-Level Street Lights	60	EA	\$3,000	\$5,000	\$180,000	\$300,000			
Pedestrian Push Button Treatments	16	EA	\$1,300	\$1,300	\$20,800	\$20,800			
Pedestrian Refuge Island	4	EA	\$8,000	\$15,000	\$32,000	\$60,000			Assumes curb and median approximately 6' wide
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			Assumes carb and incerait approximately 6 wide
Signalized Intersections	8	LS	\$125,000	\$250,000	\$1,000,000	\$2,000,000			
Wheelchair Ramps	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
	<u>-</u>	1 5/1	32,000	\$5,000	341,000	348,000			
Pedestrian Amenities	n onto casto		a disalisti disal					Marina de describiración	
Samanus es se accionada de la companya de la compa		361820					\$1,283,375	\$1,842,750	
24" box Trees	85	EA	61.030	01.000	# T = 1 # C = C			···	
60 Day Maintenance	0.3	LS	\$1,820 \$3,000	\$1,820	\$154,700	\$154,700		*******	
Bench (6' Wide, includes installation)	12	EA	1	\$4,000	\$3,000	\$4,000			
Bike Racks (including installation)	8	EA	\$1,500	\$3,000	\$18,000	\$36,000			Estimated 6 per block
Bollards		-	\$600	\$1,200	\$4,800	\$9,600			Estimated 4 per block
Bus Concrete Pad	210	EA	\$500	\$750	\$105,000	\$157,500			
Bus Shelter	4	EA	\$6,500	\$6,500	\$26,000	\$26,000			
	4	EA	\$5,000	\$10,000	\$20,000	\$40,000			
Crosswalk: Stamped Colored Concrete	78,000	SF	\$10	\$15	\$780,000	\$1,170,000			
Gateway Features	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
Seat Wall at Pedestrian Refuge Island	30	LF	\$185	\$225	\$5,550	\$6,750			
Trash Cans	18	EA	\$800	\$1,500	\$14,400	\$27,000			
Tree Grates includes frame (4'x4')	85	EA	\$680	\$750	\$57,800	\$63,750			
Tree Guards (Poweder Coated)	85	EA	\$325	\$670	\$27,625	\$56,950			
Tree Well	85	EA	\$500	\$500	\$42,500	\$42,500			
		Ī		,					
									
						Subtotals:	\$2,805,135	\$4,653,990	
					10% Ma	bilization cost:	\$2,003,133	\$4,055,990	
						6 Contingency:	\$561,027	\$930,798	
		61.350			15	% Design Fee:	\$420,770	\$698,099	
	4						\$4,067,446	\$6,748,286	

Fruitvale BART Station TOD Cost Estimate

			Low	High		High	Low	High	
Description	Qty.	Unit	Unit \$	Unit \$	Price	Price	Subtotal	Subtotal	Notes & Assumptions
netrolenenness. Och sieneselessa ett operantiset beste eller sit och behovet men									
Avenida de la Fuente: 160LF	A CONTRACTOR OF THE PARTY OF TH		***************************************						
Pedestrian Infrastructure							\$233,560	\$271,160	
Asphaltic Concrete (Demo and Removal) Concrete Curb and Gutter Removal	8,800	SF	\$9	\$9	\$79,200	\$79,200			Roadway asphalt
	320	LF	\$60	\$60	\$19,200	\$19,200			
Concrete Paving Sidewalk (scored) colored	8,800	SF	\$8	\$10		\$88,000			Square foot cost of concrete for interior of sidewalk only
Concrete Sidewalks (Demo and Removal)	1,600	SF	\$20	\$20	\$32,000	\$32,000			Crosswalk includes concrete treatment
Pedestrian-Level Street Lights	10	EA	\$3,000	\$5,000	\$30,000	\$50,000			
Pedestrian Push Button Treatments	2	EA	\$1,300	\$1,300	\$2,600	\$2,600			
Wheelchair Ramps	2	EA	\$80	\$80	\$160	\$160			
					•			·	
Pedestrian Amenities	動機與						\$118,200	\$196,180	
24" box Trees	12	EA	\$1,820	\$1,820	\$21,840	\$21,840			
60 Day Maintenance	t	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bench (6' Wide, includes installation)	25	EΑ	\$1,500	\$3,000	\$37,500	\$75,000			Estimated 2 benches every 25' on both sides of street
Bike Racks (including installation)	4	EA	\$600	\$1,200	\$2,400	\$4,800			Estimated 4 per block
Bollards	10	EA	\$500	\$750	\$5,000	\$7,500			
Gateway Features	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
Trash Cans	8	EA	\$800	\$1,500	\$6,400	\$12,000		***************************************	
Tree Grates includes frame (4'x4')	12	ΕA	\$680	\$750	\$8,160	\$9,000			
Tree Guards (Poweder Coated)	12	EA	\$325	\$670	\$3,900	\$8,040			
Tree Well	12	EA	\$500	\$500	\$6,000	\$6,000			
					30,000	00,000			
		1		*****		<u> </u>		***************************************	
						Subtotals:	\$351,760	6465.240	
					100/. Mal	Subtotais: ilization cost:	\$351,760	\$467,340	4
						\$46,734	4		
					\$70,352	\$93,468	- 1		
COVER SAME CONTRACTOR OF THE C	::::::::::::::::::::::::::::::::::::::	in in the contract of	100000000000000000000000000000000000000	ndagatykspanistija (1980)	\$52,764	\$70,101	1		
TOTAL ANTICIPATED COST							\$510,052	\$677,643	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Fruitvale BART Station TOD Case Study Cost Estimate

			low	High	Low	High	Low	High	
Item Description	Qty.	Unit	Unit \$	Unit \$	Price	Price	Subtotal	Subtotal	Notes & Assumptions
		trophys							
12th Street: 1200LF	slažetejšesestate	novemento:	SWEETS AND WITH PRINTER	47.4193707437					
Pedestrian Infrastructure							\$555,180	\$732,860	
D. H.				***					
Bulbout	4	EA	\$15,000	\$25,000	\$60,000	\$100,000			Based on lump sum cost for 6' wide bulbout extension, and 20' length.
Crosswalk: Typical Striping	360	LF	\$3	\$6	\$1,080	\$2,160		******	
Crosswalk Countdowns	1	LS	\$2,400	\$6,400	\$2,400	\$6,400			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800	ĺ	***************************************	
Signalized Intersections	1	LS	\$125,000	\$250,000	\$125,000	\$250,000			
Standard Street Light (Cobra Head)	32	EA	\$10,000	\$10,000	\$320,000	\$320,000			
Stop Signs (per sign)	5	EA	\$300	\$300	\$1,500	\$1,500			
Wheelchair Ramps	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Widened Sidewalks	0	LF	\$80	\$80	\$0	\$0			Includes demolition cost for curb removal, replacement and concrete for 3 SF of sidewalk
Pedestrian Amenities							\$272,000	\$308,200	

24" box Trees	80	EA	\$1,820	\$1,820	\$145,600	\$145,600			
Bollards	12	EA	\$500	\$750	\$6,000	\$9,000		***************************************	
Tree Grates includes frame (4'x4')	80	EA	\$680	\$750	\$54,400	\$60,000			
Tree Guards (Poweder Coated)	80	EA	\$325	\$670	\$26,000	\$53,600		***************************************	
Tree Well	80	EA	\$500	\$500	\$40,000	\$40,000			A CONTRACT OF THE CONTRACT OF

			······			····			
					\$827,180	\$1,041,060			
					10% Mol	Subtotals: oilization cost:	\$82,718	\$104,106	
					20%	Contingency:	\$165,436	\$208,212	
					\$124,077	\$156,159			
TOTAL ANTICIPATED COST					CARROL DESCRIPTION OF THE PROPERTY OF	\$1,509,537			

Fruitvale BART Station TOD Cost Estimate

Description		11-14	Low	High	Low		Low	High	\$
Description	Qty.	Unit	Unit \$	Unit \$	Price	Price	Subtotal	Subtotal	Notes & Assumptions
Fruityale TOD: 320LF	929010351100	neessass							
Pedestrian Infrastructure		5200000		1984 983 162 176		11025.000.000.000		2010-000-00-00-00-00-00-00-00-00-00-00-00	
	1200.570 330	999999					\$261,000	\$350,200	
Concrete Paving Sidewalk (scored) colored	24,000	SF	\$8	\$10	\$192,000	\$240,000			
Pedestrian-Level Lights	20	EA	\$3,000	\$5,000	\$60,000	\$100,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian Push Button Treatments	20	EA	\$1,300	\$1,300	\$2,600	\$2,600			Light every 30'
Signage	4	EA	\$300	\$400	\$1,200	\$1,600			
Wheelchair Ramps (including warning surface raised domes	2	EA	\$2,600	\$3,000	\$5,200	\$6,000			
			\$2,000	000,00	33,200	1000,08		····	
Pedestrian Amenities							\$170,980	B2 66 000	
A CALL AND	8638-01155V8532	3338334569	100000000000000000000000000000000000000	51094572HUH2HH06G11			31/0,280	\$266,080	
24" box Trees	14	EA	\$1,820	\$1,820	\$25,480	\$25,480			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			The state of the s
Bench (6' Wide plus patio seating)	15	EA	\$1,500	\$3,000	\$22,500	\$45,000			Entimoted 2 hands are 251 and 11 and 1
Bike Racks (including installation)	4	EA	\$600	\$1,200	\$2,400	\$4,800	***	······································	Estimated 2 benches every 25' on both sides of street Estimated 4 per block
Gateway Features	1	EA	\$12,000	\$24,000	\$12,000	\$24,000			Estimated 4 per block
Information Kiosks	2	EA	\$1,500	\$3,000	\$3,000	\$6,000			
Planting at for Planters	2.500	SF	\$9	\$9	\$22,500	\$22,500			8 planters at 300 sf each
Seat Wall for Planters	300	LF	\$185	\$225	\$55,500	\$67,500			8 planters at 10' diameter
Street Pole Banners	- 8	EA	\$400	\$600	\$3,200	\$4,800			Assumes standard street light pole already installed cost includes brackets and 2 banners.
Trash Cans	8	EΑ	\$800	\$1,500	\$6,400	\$12,000			Assumes standard street right pole arready instance cost includes brackets and 2 banners.
Water Fountain	1	EΑ	\$15,000	\$50,000	\$15,000	\$50,000			Assumes water source is already available at site.
									resultes water source is aready available at site.
		·		***************************************					
						Subtotals:	\$431,980	\$616,280	
				\$43,198	\$61,628				
					\$86,396	\$123,256	·		
				\$64,797	\$92,442				
TOTAL ANTICIPATED COST				5893,606					
		***************************************					\$626,371	Secretary and American	

SF Square Foot

LS Lump Sum

EA Each

LF Linear Foot

***Cost Estimates based on 2005 prices

or oquatero

	Low	High
an Pablo Avenue Pedestrian District Study 2,400 LF		
San Pablo Avenu	\$2,912,348	\$4,761,115
OTAL ANTICIPATED COST	\$2,912,348	\$4,761,115
OST PER LINEAR SQUARE FOOT	\$1,213	\$1,984

San Pablo Avenue Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal		
	i uty.	Onic	Onic 4	Oint 3	FIICE	Price	Subtotal	Subtotal	Notes & Assumptions
San Pablo Avenue: 2400 LF									
Pedestrian Infrastructure							\$1,343,228	\$2,138,756	
					2017 3 / 4 / 4 / 4 / 4 / 4 / 4 / 4 / 4 / 4 /	5-107/C258/8C36/300/UEII/EI	011100000000000000000000000000000000000		
Audible Pedestrian Crossing Cues (Per Intersection)	6	LS	\$10,400	\$10,400	\$62,400	\$62,400			
Crosswalk Countdowns	6	LS	\$2,400	\$6,400	\$14,400	\$38,400			
Crosswalk: Typical Striping	1,176	l.F	\$3	\$6	\$3,528	\$7,056			
Pedestrian Push Button Treatments	14	EA	\$400	\$1,000	\$5,600	\$14,000			· · · · · · · · · · · · · · · · · · ·
Pedestrian Refuge Island	1	EA	\$8,000	\$15,000	\$8,000	\$15,000			Assumes curb and median approximately 6' wide
Signage	26	ĒΑ	\$300	\$400	\$7,800	\$10,400			Ties and the data approximatory of struct
Signalized Intersections	6	LS	\$125,000	\$250,000	\$750,000	\$1,500,000			
Standard Street Light (Cobra Head)	40	EA	\$10,000	\$10,000	\$400,000	\$400,000			1 every 100' for 2000 LF of road
Wheelchair Ramps (including warning surface raised domes	61	EA	\$1,500	\$1,500	\$91,500	\$91,500			Terrery roo for 2000 Et Orroad
					4775-00	371,300	L		
Pedestrian Amenities		eldovale S					\$897,040	\$1,523,640	
		100000					302/4040	31,323,040	
24" Box Trees	97	EA	\$1,820	\$1,820	\$176,540	\$176,540			0
60 Day Maintenance	1	LS	\$4,000	\$8,000	\$4,000	\$8,000		·	Counted from aerial 97 trees (approx. 1 tree every 50'-60')
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			E / 1 1 A 11 1
Bike Racks (including installation)	12	EA	\$600	\$1,200	\$7,200	\$14,400			Estimated 2 per block
Bus Concrete Pad	2	EA	\$6,500	\$6,500	\$13,000				Estimated 2 per block
Bus Shelters	2	EA	\$5,000	\$10,000	\$10,000	\$13,000			
Crosswalk: Permeable Paving- Brick	1,680	SF	\$10			\$20,000			Located at San Pablo and University Avenue
Landscaped Median	2,751	LF	\$200	\$10	\$16,800	\$16,800			84 LF at 10'Wide, 2 Crosswalks
Newsracks (including installation)	-	-		\$400	\$550,200	\$1,100,400	^	w	
Trash Cans (including installation)	6	EA	\$4,000	\$6,000	\$24,000	\$36,000			Estimated I per block
Tree Well	36	EA	\$800	\$1,500	\$28,800	\$54,000			Estimated 6 per block (1 at each corner 1 mid block)
TICE WEIL	97	EA	\$500	\$500	\$48,500	\$48,500			
	ļ								
- 100 - 100		<u> </u>		<u></u>					
									The state of the s
				\$2,240,268	\$3,662,396				
				\$224,027	\$366,240				
				\$448,054	\$732,479				
				\$336,040	\$549,359				
TOTAL ANTICIPATED COST				iganis di nisali			\$2,912,348		

^{***}Cost Estimates based on 2005 prices

	Low	High
San Jose Pedestrian District Study 7650 LF		
Ist Street	\$2,217,343	\$3,586,073
2nd Street	\$2,217,343	\$3,586,073
Paseo de San Antonio	\$692,079	\$998,899
South Market	\$2,223,575	\$3,109,641
TOTAL ANTICIPATED COST	\$7,350,340	\$11,280,687
COST PER LINEAR SQUARE FOOT	\$961	\$1,475

San Jose Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price		Low Subtotal	High Subtotal	Notes & Assumptions
	66 GH-46								
lst Street: 2250 LF:	Shirt Singuither	a andaran	500000000000000000000000000000000000000	iraastavaasistava	6 Col College Control Vent Arbeits (C	RSS ZADIA OTERATORI	Manago Destacionabas (126	BESANISHEZUREN BERNE	
Pedestrian Infrastructure							\$1,063,532	\$1,848,664	
Concrete Curb and gutter Installation (for VTA island)	2,400	LF	\$30	\$40	\$72,000	\$96,000			
Concrete Paving Sidewalk (scored)	12,000	SF	230	\$10	\$96,000	\$120,000			
Crosswalk Countdowns	4	LS	\$2,400	\$6,400	\$9,600	\$25,600			
Crosswalk: Typical Striping	444	LF	\$3	\$6	\$1,332	\$2,664			·
Pedestrian-Level Street Lights	106	EA	\$3,000	\$5,000	\$318,000	\$530,000			Approximated 30' apart
Pedestrian Push Button Treatments	16	EA	\$1,300	\$1,300	\$20,800	\$20,800			Арриохинаеса 30 аран
Signage (Post and Standard Sign vs. High Visibility)	14	EA	\$300	\$400	\$4,200	\$5,600			
Signalized Intersections	4	LS	\$125,000	\$250,000	\$500,000	\$1,000,000			
Wheelchair Ramps (w/ warning surface half domes)	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
Pedestrian Amenities		0.01					\$465,670	\$624,490	
24" Box Trees	146	EA	\$1,820	\$1,820	\$265,720	\$265,720			Trees every 30' (3 rows for 1100LF/ 2 rows for 560LF)
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Bench (6' Wide, includes installation)	32	EA	\$1,500	\$3,000	\$48,000	\$96,000			Approximated 2 every 200'
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			Approximated 1 every 400'
Bollards	25	EA	\$500	\$750	\$12,500	\$18,750			
Bus Concrete Pad	2	EA	\$6,500	\$6,500	\$13,000	\$13,000			
Transit Shelter	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			
Information Kiosks	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			
Street Pole Banners	106	EA	\$400	\$600	\$42,400	\$63,600			Assumes standard street light pole includes brackets and 2 banners.
Trash Cans	16	EA	\$800	\$1,500	\$12,800	\$24,000			Approximated 1 every 200'
Tree Guards (Special Aluminum)	146	EA	\$325	\$670	\$47,450	\$97,820			Special Aluminum Circle design acts as bench, tree guard, and bike rack
	ļ				****				
	<u> </u>	<u></u>	<u> </u>						
						Subtotals: pilization cost: Contingency:	\$1,529,202 \$152,920 \$305,840	\$2,473,154 \$247,315 \$494,631	{
									4

San Jose Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$				1	.[
	Qty.	Joint	<u> Onicə</u>	Omt 3	Price	Price	Subtotal	Subtotal	Notes & Assumptions
2nd Street: 1800 LF						,			
Pedestrian Infrastructure	K 81 /81 /110	2000					\$1,063,532	\$1,848,664	
Concrete Curb and gutter Installation (for VTA island)	2,400	LF	\$30	\$40	\$72,000	\$96,000			
Concrete Paving Sidewalk (scored)	12,000	SF	\$8	\$10	\$96,000	\$120,000			
Crosswalk Countdowns	4	LS	\$2,400	\$6,400	\$9,600	\$25,600			
Crosswalk: Typical Striping	444	LF	\$3	\$6	\$1,332	\$2,664			
Pedestrian-Level Street Lights	106	EA	\$3,000	\$5,000	\$318,000	\$530,000			Approximated 30' apart
Pedestrian Push Button Treatments	16	EA	\$1,300	\$1,300	\$20,800	\$20,800			Approximated 50 apart
Signage	14	EA	\$300	\$400	\$4,200				
Signalized Intersections	4	EA	\$125,000	\$250,000	\$500,000				A AMERICA CONTRACTOR OF THE CO
Wheelchair Ramps (w/ warning surface half domes)	16	EA	\$2,600	\$3,000	\$41,600	\$48,000			
			· · · · · · · · · · · · · · · · · · ·	·····		4 1 3 (5 1 5 1			
Pedestrian Amenities		0.000					\$465,670	\$624,490	
24" box Trees	146	EA	\$1,820	\$1,820	\$265,720	\$265,720			Trees every 30' (3 rows for 1100LF/ 2 rows for 560LF)
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Trees every 50 (5 fows for Frodel / 2 fows for 500LF)
Bench (6' Wide, includes installation)	32	EA	\$1,500	\$3,000	\$48,000	\$96.000			Approximated 2 every 200'
Bike Racks (including installation)	8	EA	\$600	\$1,200	\$4,800	\$9,600			Approximated 1 every 400'
Bollards	25	EA	\$500	\$750	\$12,500	\$18,750	- HAMANA		Approximated 1 every 400
Bus Concrete Pad	2	EΑ	\$6,500	\$6,500	\$13,000	\$13,000			
Transit Shelter	2	EA	\$5,000	\$10,000	\$10,000	\$20,000			
Information kiosks	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			
Street Pole Banners	106	EA	\$400	\$600	\$42,400	\$63,600			Assumes standard street light pole includes brackets and 2 banners.
Trash Cans	16	EA	\$800	\$1.500	\$12,800	\$24,000			Approximated 1 every 200'
Tree Guards (Special Aluminum)	146	EA	\$325	\$670	\$47,450	\$97,820			Special Aluminum Circle design acts as bench, tree guard, and bike rack
						3 77,022			Special Fridailinant Cricic design acts as ochen, nee guard, and bike rack
						Subtotals:	\$1,529,202	\$2,473,154	
		\$152,920 \$305,840							
TOTAL ANTICIPATED COST						% Design Fee:	\$229,380 \$2,217,343		

San Jose Case Study Cost Estimate

Lion Description City Unit Unit Unit Unit Unit Unit Unit Unit Price Price Subtotal		1	Ţ <u>.</u>	1	T	T	T	·····	Ţ	
Seed	ltem Description	Qty.	Unit							•
Seed					Augrafica					
Bollards		Elifabrico XVIII	26533.000	Eminoralita (1864 mai)	Leaster services (1925)	Mandan Iron oxide	Mary Denkadaryan (2001	PSC VICES TO Low House Income		
Concrete Valley Gutter Installation	reuestriale intrastructure							\$244,200	\$326,000	
Concrete Valley Gutter Installation	D -11 - 1									
Concrete Paving Sidewalk (scored) 21,500 SF S8 S10 S172,000 S215,000 S215,000 Square foot cost of concrete for interior of sidewalk only										
Pedestrian-Level Lights										
Signage (Post and Standard Sign vs. High Visibility)			-							Square foot cost of concrete for interior of sidewalk only
Wheelchair Ramps (w/ warning surface half domes) 2 EA \$2,600 \$3,000 \$5,200 \$6,000	<u> </u>		+							
Section Sect				}						
24" box Trees	wheelchair Ramps (w/ Warning surface nair domes)	2	EA	\$2,600	\$3,000	\$5,200	\$6,000			
24" box Trees	p-2-replacement of the control of th									
60 Day Maintenance			unios:			Ordinanda		\$233,096	\$362,896	
60 Day Maintenance 1 LS \$3,000 \$4,000 \$332,700 \$4,000 Est sq footage of landscape area and tree maintenance costs over 1/2 mi Bench (6' Wide, includes installation) 42 EA \$1,500 \$3,000 \$63,000 \$126,000 Est sq footage of landscape area and tree maintenance costs over 1/2 mi Bike Racks (including installation) 10 EA \$600 \$1,200 \$6,000 \$12,000 Crosswalk: Permeable Paving- Brick 672 SF \$13 \$13 \$13 \$8,736 \$8,736 \$84 LF at 8' wide Gateway Features and Public Art 3 EA \$12,000 \$24,000 \$36,000 \$72,000 Seat Wall 400 LF \$185 \$225 \$74,000 \$90,000 Street Pole Banners 4.0 EA \$400 \$600 \$1,600 \$2,400 Assumes standard street light pole includes brackets and 2 banners. Trash Cans 10 EA \$800 \$1,500 \$8,000 \$15,000 \$47,720 \$5688,890 \$477,296 \$688,896 \$477,296 \$688,896 \$477,30 \$688,890 \$477,30 \$688	24" box Trees	1.0	EA	E1 970	£1 030	622 740	E22 240			
Bench (6 Wide, includes installation)		10	-							
Bike Racks (including installation) 10 EA		42								Est sq footage of landscape area and tree maintenance costs over 1/2 mile of road.
Crosswalk: Permeable Paving- Brick 672 SF S13 S13 S8,736 S8,736 S8,736 S8,736 Gateway Features and Public Art 3 EA S12,000 S24,000 S36,000 S72,000 S24,000 S24,000 S90,000 S12,000 S12,0			-							
Gateway Features and Public Art 3 EA \$12,000 \$24,000 \$36,000 \$72,000 \$ Seat Walf 400 LF \$185 \$225 \$74,000 \$90,000 \$ Street Pole Banners 4.0 EA \$400 \$600 \$1,600 \$2,400 \$ Trash Cans 10 EA \$800 \$1,500 \$8,000 \$15,000 \$ Subtotals: 10% Mobilization cost: 2477,296 \$688,896 \$477,30 \$688,890 \$137,779		 					***************************************			
Seat Wall										84 LF at 8' wide
Street Pole Banners			+							
Trash Cans 10 EA \$800 \$1,500 \$8,000 \$15,000 \$15,000 \$ Subtotals: \$477,296 \$688,896 \$1,730 \$68,890 \$20% Contingency: \$95,459 \$137,779			+							
Subtotals: \$477,296 \$688,896 10% Mobilization cost: 20% Contingency: \$95,459 \$137,779			 						***************************************	Assumes standard street light pole includes brackets and 2 banners.
10% Mobilization cost: \$47,730 \$68,890 20% Contingency: \$95,459 \$137,779		10	LA	3000	31,300	28,000	\$15,000			
10% Mobilization cost: \$47,730 \$68,890 20% Contingency: \$95,459 \$137,779			-							
10% Mobilization cost: \$47,730 \$68,890 20% Contingency: \$95,459 \$137,779		<u> </u>	<u> </u>	<u> </u>				-i	<u></u>	
10% Mobilization cost: \$47,730 \$68,890 20% Contingency: \$95,459 \$137,779							Colored		0.00 00.0	
20% Contingency: \$95,459 \$137,779										
TOTAL ANTICIPATED COST S692,079 S398,899	TOTAL ANTICIPATED COST		466.448			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				

San Jose Case Study Cost Estimate

				115-1		4.0			
Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
		<i>4</i> 11.66							
South Market Street: 2600 LF									
Pedestrian Infrastructure							\$605,800	\$1,130,400	
Audible Pedestrian Crossing Cues (Per Intersection)	4	LS	\$10,400	\$10,400	\$41,600	\$41,600			
Crosswalk Countdowns	4	LS	\$2,400	\$6,400	\$9,600	\$25,600			
Crosswalk: Typical Striping	600	LF	\$3	\$6	\$1,800	\$3,600			
Pedestrian Push Button Treatments	12	EA	\$1,300	\$1,300	\$15,600	\$15,600			
Signage	20	EA	\$300	\$400	\$6,000	\$8,000			
Signalized Intersections	4	LS	\$125,000	\$250,000	\$500,000	\$1,000,000	***************************************		
Wheelchair Ramps	12	EA	\$2,600	\$3,000	\$31.200	\$36,000			
					•				
Pedestrian Amenities		iania.			10 (0 to 10		\$927,700	\$1,014,180	
24" box Trees	132	EΑ	\$1,820	\$1,820	\$240,240	\$240,240			Assumes 2640 LF of street trees at 40' apart 2 sides of street only even when split.
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			to apart 2 sides of silect only even when apire.
Bollards	50	EΑ	\$500	\$750	\$25,000	\$37.500			
Standard Street Light (Cobra Head)	44	EA	\$10,000	\$10,000	\$440,000	\$440,000			
Trash Cans	26	EA	\$800	\$1,500	\$20,800	\$39,000			Trash can every 200LF on both sides of street
Tree Grates includes frame (4'x4')	132	EA	\$680	\$750	\$89,760	\$99,000			Takin can every 20021 on our sides of street
Tree Guards (Powder Coated)	132	EA	\$325	\$670	\$42,900	\$88,440			
Tree Well	132	EA	\$500	\$500	\$66,000	\$66,000			
						,			
				······································					
					Subtotals:	\$1,533,500	\$2,144,580		
					\$153,350	\$214,458			
					\$306,700	\$428,916			
					\$230,025	\$321,687			
TOTAL ANTICIPATED COST	in a list	Seriou.			\$2,223,575				
	a catamorase())	100-074-08-08-35-55	CO. 24 PART 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sopusiista satus (1927)	::::::::::::::::::::::::::::::::::::::		::::::::::::::::::::::::::::::::::::::	33,107,041	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

	Low	High
Santa Rosa Pedestrian District Study 5000 LF		
4th Street	\$2,194,785	\$3,393,421
Mendocino Ave	\$2,074,805	\$3,254,438
Prince Memorial	\$1,300,940	\$1,735,07 0
TOTAL ESTIMATED COST	85,570,530	\$8,382,929
COST PER LINEAR SQUARE FOOT	\$1,114	\$1,677

Santa Rosa Case Study Cost Estimate

Item Description	Otv	Unit	Low Unit \$	High Unit \$		High Price	Low		
				Unit 3	Price	Price	Subtotal	Subtotal	Notes & Assumptions
th Street: 1600LF						(0.00.000.000.000.000.000.000.000.000.0	DOMESTIC STREET, STREE	*************	
Pedestrian Infrastructure	All the						\$1,110,445	\$1,853,690	
Audible Pedestrian Crossing Cues (Per Intersection)	4	LS	\$10,400	\$10,400	\$41,600	\$41,600			Assumes one at each corner of intersection (8 per intersection)
Bulbout	12	EA	\$15,000,00	\$25,000,00	\$180,000	\$300,000			Costs increases with infrastructure implications. Based on lump sum cost for 6' wide bulbout extension, and 20' length
Crosswalk: Typical Striping	15	I.F	\$3	\$6	\$45	\$90			2 stripes vs. Ladder stripes
Pedestrian-Level Street Lights	56	ĒΑ	\$3,000	\$5,000	\$168,000	\$280,000			Estimate one every 50'
Pedestrian Push Button Treatments	32	EA	\$1,300	\$1,360	\$41,600	\$41,600			Institute one of the same of t
Signage	16	EA	\$300	\$460	\$4,800	\$6,400			Assumes new post is needed in sidewalk and installation
Signalized Intersections	4	EA	\$125,000	\$250,000	\$500,000	\$1,000,000			Estimate depends on size of street, and type of signal
Wheelchair Ramps (w/ warning surface half domes)	24	EA	\$2,600	\$3,000	\$62,400	\$72,000		***************************************	Includes demolition costs and repaying asphalt at cuts.
Widened Sidewalks	1.400	LF	\$80	\$80	\$112,000	\$112,000			Includes demolition cost for curb removal, replacement and concrete for 3 SF of sidewalk
,									ANALOS GENERALISTO CITO PERIOTER, CEPTACHICIA DE CONCERT NO 3-31 OF SIGNAR
Pedestrian Amenities							\$403,200	\$486,600	
24" box Trees	100	ΕA	\$1,820	\$1,820	\$182,000	\$182,000			Estimated one tree every 30 LF
60 Day Maintenance	1	L.S	\$3,000	\$4,000	\$3,000	\$4,000		***************************************	Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			Estimate 2 every block
Bike Racks (including installation)	18	EA	\$600	\$1,200	\$10,800	\$21,600			6 per block
Bollards	40	EA	\$500	\$ 750	\$20,000	\$30,000			
Crosswalk: Permeable Paving- Brick	1,000	SF	\$13	\$13	\$13,000	\$13,000			Includes demo of existing asphaltic concrete and aggregate base.
Gateway Features/Public Art	2	EA	\$12,000	\$24,000	\$24,000	\$48,000			
Trash Cans	18	EA	\$800	\$1,500	\$14,400	\$27,000			Estimate 6 per block
Tree Grates includes frame (4'x4')	100	EA	\$680	\$750	\$68,000	\$75,000			
Tree Well	100	EA	\$500	\$500	\$50,000	\$50,000			Includes saw cut of 5' x5' hole, 2,5 cy amended soil, and concrete demo and hauling
Planters (concrete with soil and plants)	81	EA	\$1,000.00	\$2,000 00	\$18,000	\$36,000			Estimate 6 per block
	ļ	<u> </u>		***************************************					
						Subtotals:	\$1,513,645	\$2,340,290	
					10% Mol	oilization cost:	\$151,365	\$234,029	
						Contingency	\$302,729	\$468,058	•
						% Design Fee:	\$227,047	\$351,044	
TOTAL ANTICIPATED COST	National Co.	Endinsik	obak Gillingian			MODELLI I CC.	\$2,194,785		4

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Santa Rosa Case Study Coast Estimate

Item Description			Low		Low		Low	High	
nem Description	uty.	Unit	Unit \$	Unit \$	Price	Price	Subtotal	Subtotal	110100 0 7700 01150 0115
Mendacino Avenue: 2400LF	171220110	Segment 1	esessavus porturatoros.						
Pedestrian Infrastructure	iliyii						5885,700	\$1,565,400	
Audible Pedestrian Crossing Cues (Per Intersection)	4	LS	\$10,400	\$10,400	\$41,600	\$41,600			
Crosswalk: Typical Striping	700	LF	\$3	\$6	\$2,100	\$4,200			
Pedestrian-Level Street Lights	82	EA	\$3,000	\$5,000	\$246,000	\$410,000			
Pedestrian Push Button Treatments	8	EA	\$1,300	\$1,300	\$10,400	\$10,400			
Signalized Intersections	4	LS	\$125,000	\$250,000	\$500,000	\$1,000,000		,	
Signage	8	EA	\$300	\$400	\$2,400	\$3,200			
Wheelchair Ramps (w/ warning surface half domes)	32	EA	\$2,600	\$3,000	\$83,2(8)	\$96,000		·····	
		•					***************************************		
Pedestrian Amenities		186				MRANES NEWS	\$545,200	\$679,040	
24" box Trees	136	EA	\$1.820	\$1,820	\$247,520	\$247,520			
60 Day Maintenance	I i	LS	\$3,000	\$4.000	\$3,000	\$4,000			
Crosswalk: Permeable Paving- Brick	800	SF	\$13	\$13	\$10,400	\$10,400			
Landscaped Median	270	LF	\$200	\$400	\$54,000	\$108,000			
Trash Cans	32	EA	\$800	\$1,500	\$25,600	\$48,000			Estimate 4 per block
Tree Grates includes frame (4'x4')	136	ÊΑ	\$680	\$750	\$92,480	\$102,000			***************************************
Tree Guards (Powder Coated)	136	EA	\$325	\$670	\$44,200	\$91.120			
Tree Well	136	EA	\$500	\$500	\$68,000	\$68,000		1-1	

						Subtotals:	\$1,430,900	\$2,244,440	
					10% Mol	oilization cost:	\$143,090	\$224,444	
					20%	Contingency:	\$286,180	\$448,888	
						6 Design Fee:	\$214,635	\$336,666	
TOTAL ANTICIPATED COST							THE RESERVE OF THE PARTY OF THE	\$3,254,438	4

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Santa Rosa Case Study Cost Estimate

Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	Price	Low Subtotal	High Subtotal	Notes & Assumptions
Prince Memorial: 1000 LF				21. 20.01.20.20.20.20.20.20.20.20.20.20.20.20.20.	2022471322222232223	9980000000000	WATER HIGH HOSSIN	50 20 20 20	
Pedestrian Infrastructure	Missig						\$307,200	\$389,600	
Asphaltic Concrete	20,000		-						
Pedestrian-Level Lights		SF	\$9	\$9	\$180,000	\$180,000			Roadway asphalt for 1000 LF (10' wide both sides of creek)
Signage	40	EA	\$3,000	\$5,000	\$120,000	\$200,000			Estimates one every 50' both sides of creek
atenage	24	EA	\$300	\$400	\$7,200	\$9,600			
Pedestrian Amenities		Haz		i kana jan sis	1801 1801 (1921)		\$590,000	\$807,000	
Bench (6' Wide, includes installation)	80	ΕA	\$1,500	\$3,000	\$120,000	\$240,000			Estimates one every 25'
Bike Racks (including installation)	20	EA	\$600	\$1,200	\$12,000	\$24,000		***************************************	Estimates one every 100°
Bollards	24	EΑ	\$500	\$750	\$12,000	\$18,000			
Crosswalk: Stamped Colored Concrete	1,000	SF	\$10	\$15	\$10,000	\$15,000			Includes demo of existing asphaltic concrete and aggregate base.
Gateway Features (Public Art/Creek Overlooks)	- 5	EΑ	\$12,000	\$24,000	\$60,000	\$120,000			Public Artwork and creek overlook estimates 5 within study area.
Planting at pathway	40,000	SF	\$9	\$9	\$360,000	\$360,000			Assumes planting along entire length of creek bed
Trash Cans	20	ËΑ	\$84K)	\$1,500	\$16,000	\$30,000			and child stigar or creek occ.
				*					
						Subtotals:	\$897,200	\$1,196,600	
					10% Mot	oilization cost	\$89,720	\$119,660	
					20%	Contingency	\$179,440	\$239,320	
	Parameter Control	p 				% Design Fee:	\$134,580	\$179,490	
TOTAL ANTICIPATED COST		enti il		and musicing the			\$1,300,940	\$1,735,070	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

	Low	High
Suisun City Pedestrian District Study 6100 LF		
Main Street	\$1,815,197	\$2,420,949
Kellogg Street	\$823,600	\$1,104,668
Waterfront Promenade	\$2,265,661	\$3,149,835
	so portalización de la constanta de la constan	
TOTAL ESTIMATED COST	\$4,904,458	\$6,675,452
COST PER LINEAR SQUARE FOOT	\$804	\$1,094

Suison City Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price		High Subtotal	Notes & Assumptions
Main Street: 2500LF		(**(##Z%							
Pedestrian Infrastructure		din i		Burger (State)			\$800,560	\$1,143,520	
C B C C B C									
Concrete Paving Sidewalk (scored and colored)	43,000	SF	\$8	\$10	\$344,000	\$430,000		·	Square foot cost of concrete for interior of sidewalk only
Crosswalk: Typical Striping	320	LF	\$3	\$6	\$960	\$1,920			
Pedestrian-Level Street Lights	120	EΑ	\$3,000	\$5,000	\$360,000	\$600,000			Estimated one every 100LF over 2400 LF on both sides of street
Signage	24	EΑ	\$300	\$400	\$7,200	\$9,600			
Wheelchair Ramps	34	EΑ	\$2,600	\$3,000	\$88,400	\$102,000			
24" box Trees	120	EA	\$1.820	\$1.820	\$218.400	\$218.400	\$451,300		
24" box Trees	120	EA	\$1,820	\$1.820	\$218,400	\$218,400			Average every 30-40' both sides of street
60 Day Maintenance	ı	LS	\$3,000	\$4,000	\$3,000	\$4,000			
Crosswalk: Permeable Paving- Brick	100	SF	\$13	\$13	\$1,300	\$1,300			Includes demo of existing asphaltic concrete and aggregate base.
Street Pole Banners	120	EA	\$400	\$600	\$48,000	\$72,000			Assumes standard street light pole already installed cost includes brackets and 2 banners.
Tree Grates includes frame (4'x4')	120	EΑ	\$680	\$750	\$81,600	\$90,000			B CONTROL OF THE STATE OF THE S
Tree Guards (Powder Coated)	120	EA	\$325	\$670	\$39,000	\$80,400	***************************************	V-740000000	
Tree Well	120	EA	\$500	\$500	\$60,000	\$60,000		***************************************	Includes saw cut of 5' x5' hole, 2.5 cy amended soil, and concrete demo and hauling
									
		·							

Subtotals \$1,251,860 \$1,669,620 10% Mobilization cost \$125,186 \$166,962 20% Contingency \$250,372 \$333,924 15% Design Fee \$187,779 \$250,443 \$31,315,197 \$2,420,949

Cost Estimates based on 2005 prices

TOTAL ANTICIPATED COST

SF Square Foot

LS Lump Sum

EA Each

LS Lump Sum LF Linear Foot

Suisun City Case Study Cost Estimate

Man Dana (1941)			Low	High	Low	High	Low	High	
Item Description	Qty.	Unit	Unit \$	Unit \$	Price	Price	Subtotal	Subtotal	77.70.010.016.017.02.01.01.01.01.01.01.01.01.01.01.01.01.01.
Kellogg Street: 1000LF	***********			100000000000000000000000000000000000000		931435-1101-1100			
Pedestrian Infrastructure	0.000	GH.			GH GH GH	i competition (\$272,000	\$396,906	
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		211/22/2011/11/11/2011/11/20		,,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Concrete Paving Sidewalk (scored and colored)	13,600	SF	\$8	\$10	\$108,800	\$136,000			Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Street Lights	42	EΑ	\$3,000	\$5,000	\$126,000	\$210,000			
Signage	20	EA	\$300	\$400	\$6,000	\$8,000			
Wheelchair Ramps	12	EA	52,600	\$3,000	\$31,200	\$36,000			
					·····				
Pedestrian Amenities		1300					\$296,000	\$371,840	
24" box Trees	56	EA	\$1.820	\$1,820	\$101,920	\$101,920			
60 Day Maintenance	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Benches or Sidewalk Furniture/Cafes Seating	18	EA	\$1,500	\$3,000	\$27,000	\$54,000			Essentic based on square toolage or saidscape area and the maintenance of costs over 174 mile of foad.
Bike Racks (including installation)	6	ĒΑ	\$600	\$1,200	\$3,600	\$7,200			
Planting/Landscaping	5.000	SF	\$9	59	\$45,000	\$45,000		***************************************	
Street Pole Banners	42	EA	\$400	\$600	\$16,800	\$25,200			Assumes standard street light pole already installed cost includes brackets and 2 banners.
Trash Cans	18	EΑ	\$800	\$1,500	\$14,400	\$27,000			readings standard street right pore aready mainted cost mendes brackets and 2 daniers.
Tree Grates includes frame (4'x4')	56	EA	\$680	\$7 50	\$38,080	\$42,000			
Tree Guards (Powder Coated)	56	EA	\$325	\$670	\$18,200	\$37,520			
Tree Well	56	EA	\$500	\$500	\$28,000	\$28,000			

						Subtotals:	\$568,000	\$761,840	
					10% Mob	ilization cost:	\$56,800	\$76,184	
					20%	Contingency.	\$113,600	\$152,368	
						6 Design Fee:	\$85,200	\$114,276	
TOTAL ANTICIPATED COST			Himming	Nicle vervat			\$823,600	\$1,104,668	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

MTC Pedestrian Districts Study Suisun City Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Waterfront Promenade; 2600LF (\$871-\$1211/1.F)	527334(35)(4)	099999		100010001110101010					
Pedestrian Infrastructure		una	14800016020		rage regardada	Boxedio dell'ida	\$682,200	\$937,800	
						2527423232332222333	2401,200	3707,000	
Concrete Curb and gutter Installation	2,600	LF	\$30	\$40	\$78,000	\$104,000			
Concrete Paving Sidewalk (scored and colored)	46,800	ŞF	\$8	\$10	\$374,400	\$468,000	Y		Square foot cost of concrete for interior of sidewalk only
Pedestrian-Level Lights	65	EA	\$3,000	\$5,000	\$195,000	\$325,000			One every 40 LF
Signage	12	ĒΑ	\$300	\$400	\$3,600	\$4,800			Assumes new post is needed in sidewalk and installation.
Wheelchair Ramps (w/ warning surface half domes)	12	EA	\$2,600	\$3,000	\$31.200	\$36,000			Includes demolition costs and repaying asphalt at cuts.
							****	***************************************	and the second s
Pedestrian Amenities							\$880,325	\$1,234,500	
24" box Trees	65	EA	\$1,820	\$1,820	\$118,300	\$118,300			One every 40 LF
60 Day Maintenance	1	1.S	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square feotage of landscape area and tree maintenance of costs over 1/2 mile of road
Bench (6' Wide, includes installation)	86	EA	\$1,500	\$3,000	\$129,000	\$258,000	****		One every 30 LF
Bike Racks (including installation)	32	ĒΑ	\$600	\$1.200	\$19,200	\$38,400			One every 80 LF
Bollards	12	EA	\$500	\$750	\$6,000	\$9,000			
Gateway Features/Public Art/ Monument	3	EA	\$12,000	\$24,000	\$36,000	\$72,000			
Planting at Public Plaza	39.200	SF	\$9	\$9	\$352,800	\$352,800			
Trash Cans	32	EA	\$800	\$1,500	\$25,600	\$48,000			One every 80 LF
Tree Grates includes frame (4'x4')	65	EA	\$680	\$750	\$44,200	\$48,750			
Tree Guards (Powder Coated)	65	EA	\$325	\$670	\$21,125	\$43,550			
Tree Well	65	EA	\$500	\$500	\$32,500	\$32,500			Includes saw cut of 5' x5' hole, 2.5 ey amended soil, and concrete demo and hauling
Decorative Iron Railing	2.600	L.F	\$26	\$42	\$67,600	\$109,200			
Stage/Amphitheatre	1	LS	\$25,000	\$100,000	\$25,000	000,0012			Depends upon size and structure of amphitheater.

***Cost Estimates based on 2005 prices

SF Square Foot

LS Lump Sum

EA Each

-				Low	High
UCSF	Pedestrian District Stu	dy	3260 LF		
	Parnassus Avenue	1600.0		\$1,456,018	\$2,269,685
	Hillway Avenue	400.0		\$165,155	\$224,518
	Third Avenue	480,0		\$211,439	\$285,969
	Carl and Irving Streets	780.0		\$390,572	\$459,302
	Pedestrian Passages	0.0		\$13,050	\$17,400
TOTAL	LESTIMATED COST			\$2,236,234	\$3,256,874
COST	PER LINEAR SQUARE FO	ют	Zinauleni Pop	\$686	\$999

UCSF Case Study Cost Estimate

Item Description	Qty.	1 10016	Low Unit \$	High Unit \$	Low Price	High Price		High Subtotal	Notes 9 Assumptions
item Description			Onit a	onii a	THE THE	Price	Subtota	Suptotal	Notes & Assumptions
Parnassus: 1600LF	1	1		2820102833310201020	an nauanger 1995	***************************************	010111011111111111111111111111111111111	7171575FF1565FC1257	
Pedestrian Infrastructure	manini	8666			2000		6617100	\$1,091,400	
2.000.037.000.000.000.000.000	P)(5)29:020	Denistres	100000000000000000000000000000000000000	29595 Sere(D21Pet520)	DESCRIPTION OF THE PROPERTY OF		Service and Act quality	31,051,400	тууулуу тууштуу туушту Тууштуу тууштуу туушту
Audible Pedestrian Crossing Cues (Per Intersection)	2	LS	\$10,400	\$10,400	\$20,800	\$20,800			
Crosswalk Countdowns	2	ιs	\$2,400	\$6,400	\$4,800	\$12,800		~~~~	
Crosswalk: Typical Striping	400	LF	53	S6	\$1,200	\$2,400			
Pedestrian-Level Street Lights	94	EA	\$3,000	\$5,000	\$282,000	\$470,000			
Pedestrian Push Button Treatments	4	EA	\$1,300	\$1,300	\$5,200	\$5,200			
Pedestrian Refuge Island	i	EA	\$8,000	\$15,000	\$8,000	\$15,000			
Signage	28	EA	\$300	\$400	\$8,400	\$11,200			
Signalized Intersections	2	LS	\$125,000	\$250,000	\$250,000	\$500,000			, , , , , , , , , , , , , , , , , , , ,
Wheelchair Ramps	18	EA	\$2,600	\$3,000	\$46,800	\$54,000		.,,,,,,,,,,,,,	
Pedestrian Amenities	HIGHN	100	Analki				\$376,950	\$473,900	
24" box Trees	50	EA	\$1,820	\$1,820	\$91.000	\$91,000			Counted and Estimated from Aerial
60 Day Maintenance	ī	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Bench (6' Wide, includes installation)	12	EA	\$1,500	\$3,000	\$18,000	\$36,000			
Bike Racks (including installation)	12	EA	\$600	\$1,200	\$7,200	\$14,400			
Bus Concrete Pad	4	EA	\$6,500	\$6,500	\$26,000	\$26,000			
Bus Shelter	4	EA	\$5,000	\$10,000	\$20,000	\$40,000			
Brick Paving	7.500	SF	\$13	\$13	\$97,500	\$97,500			Estimated 2 areas at 250LF 15' sidewalks
Gateway Features/Public Art	1	ΕA	\$12,000	\$24,000	\$12,000	\$24,000			
Information kiosks	2	EA	\$1.500	\$3,000	\$3,000	\$6,000			
Newsracks	4	EΑ	\$4,000	\$6,000	\$16,000	\$24,000	İ		Includes a bank of 4-6 newspaper racks.
Trash Cans	10	EA	\$800	\$1,500	\$8,000	\$15,000			Estimated 2 per block
Tree Grates includes frame (4'x4')	50	EA	\$680	\$750	\$34,000	\$37,500			
Tree Guards (Powder Coated)	50	EA	\$325	\$670	\$16,250	\$33,500			
Tree Well	50	EA	\$500	\$500	\$25,000	\$25,000			
						Subtotals:	\$1,004,150	\$1,565,300	
					10% Mo	bilization cost:	\$100,415	\$156,530	
					20%	Contingency:	\$200,830	\$313,060	
						% Design Fee:	\$150,623	\$234,795	
TOTAL ANTICIPATED COST							\$1,456,018	\$2,269,685	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

LF Linear Foot

All items listed include installation costs.

UCSF Case Study Cost Estimate

Item Description	Otv	Unit	Low Unit \$	High Unit \$			Low Subtotal	High Subtotal	}
					PIICE	rice)	Subtotai	Subtotai	Notes & Assumptions
Hillway: 400LF									
Pedestrian Infrastructure		Him				10 (0)	\$54,500	\$85,000	
Crosswalk: Typical Striping	100	LF	\$3	\$6	\$300	\$600			
Podostrian-Level Street Lights	14	EΑ	\$3,000	\$5,000	\$42,000	\$70,000			Estimate 1 every 50 LF both sides of street.
Signage	6	EA	\$300	\$400	\$1,800	\$2,400	***************************************	************	
Wheelchair Ramps (w/ warning surface half domes)	4	EA	\$2.600	\$3,000	\$10,400	\$12,000			
Pedestrian Amenities			100 100 100				\$59,400	\$69,840	
					100000000000000000000000000000000000000				
24" box Trees 60 Day Maintenance	16	EA	\$1.820	\$1,820	\$29,120				Includes irrigation, trenching and water barrier.
Trash Cans	1	LS	\$3,000	\$4,000	\$3,000	\$4,000			Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Tree Grates includes frame (4'x4')	+	EA	\$800	\$1,500	\$3.200	\$6,000			
Tree Grates (Powder Coated)	16	EA EA	\$680 \$325	* \$750 \$670	\$10,880	\$12,000			
Tree Well	16	EA	\$500	\$670 \$500	\$5,200 \$8,000	\$10,720 \$8,000			Includes saw cut of 5' x5' hole, 2.5 cy amended soil, and concrete demo and hanling
						30,000			includes saw circo - 2.2 to annual son, and conclude deing and naturing
	<u> </u>								
						Subtotals:	\$113,900	\$154,840	
					10% Mol	bilization cost.	\$11,390	\$15,484	
						Contingency	\$22,780	\$30,968	
						% Design Fee	\$17,085	\$23,226	4
TOTAL ANTICIPATED COST		ira. (ri	AGE ATTE		i de la companya de		\$165,155		4

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

All items listed include installation costs

UCSF Case Study Cost Estimate

Item Description	Qty	. Unit	Low Unit \$	High Unit \$	Price	High Price	Subtotal	High Subtotal	
3rd Avenue: 480LF	T								
Pedestrian Infrastructure		248G					\$66,470	\$104,940	
Crosswalk: Striping	90	LF	\$3	\$6	\$270	\$540			Standard
Pedestrian-Level Street Lights	18	EA	\$3,000	\$5,000	\$54,000	\$90,000			Estimated 1 every 50LF
Signage	6	EA	\$300	\$400	\$1,800	\$2,400			Assumes new post is needed in sidewalk and installation.
Wheelchair Ramps (w/ warning surface half domes)	4	EA	\$2,600	\$3,000	\$10,400	\$12,000			Includes demolition costs and repaying asphalt at cuts.
Pedestrian Amenities						160 (57) 1/0 41 450 500	\$79,350	\$92,280	
24" box Trees	22	EA	\$1,820	\$1,820	\$40,040	\$40,040			22 counted off of serial
60 Day Maintenance	1	I.S	\$3,000	\$4,000	\$3,000	\$4,000			, , , , , , , , , , , , , , , , , , ,
Trash Cans	4	EA	9082	\$1.500	\$3,200				Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Tree Grates includes frame (4'x4')	22	EA	\$680	\$750	\$14,960			***************************************	
Tree Guards (Powder Coated)	22	EA	\$325	\$670	\$7,150				
Tree Well	22	EA	\$5(0)	\$500	\$11,000	\$11,000			Includes saw out of 5' x5' hole, 2.5 cy amended soil, and concrete demo and hauling
				41-041	217,000	311.000			includes saw cut of 5 x,5 note, 2.5 cv amended son, and concrete demo and hauling
	T								

						Subtatale	\$1.15.920	£107.320	

Subtatals	S145,820	S197,220
10% Mobilization cost	514,582	5197,222
20% Contingency	529,164	539,444
15% Design Fee	521,873	529,583
TOTAL ANTICIPATED COST	5218,439	5285,969

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

UCSF Case Study Cost Estimate

Item Description	0***	Unit	Low Unit S	High Unit \$			Low	High	A PROPERTY OF THE PROPERTY OF
			Offic 3	Unit 3	Price	Price	Subtotal	Subtotal	Notes & Assumptions
Carl Street: 780LF							5.50.00.50.00.00.00.00.00.00.00.00.00.00	525550 DESCRIPTION	
Pedestrian Infrastructure							\$56,800	\$67,200	
5.	<u> </u>	<u> </u>							
Crosswalk Typical Striping	400	1	\$3	\$6	\$1,200	\$2.400			2 stripes vs. Ladder stripes
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			Assumes new post is needed in sidewalk and installation
Wheelchair Ramps (w/ warning surface half domes)	20	EA	\$2,600	\$3,000	\$52,000	\$60,000			Includes demolition costs and repaying asphalt at cuts.
Pedestrian Amenities	rotton	W8884	ancolor de la Color de la Colo	daus cases recent	550000000000	nassavena ala		7.4%-tuo men-are	
redestrial Amenines	5600	2021(0))	ojiminasti.	354,001,4500	Seramuading	atia kabulan	\$212,560	\$249,560	
24" box trees	58	EA	\$1.820	\$1,820	\$105,560	\$105,560			Counted from acrial
60 Day Maintenance	1	l.S	\$3,000	\$4,000	\$3,000	\$4,000		***************************************	Estimate based on square footage of landscape area and tree maintenance of costs over 1/2 mile of road.
Bus Concrete Pad	6	EA	\$6,500	\$6,500	\$39,000	\$39,000			The state of the s
Bus Shelter	6	EA	\$5.000	\$10,000	\$30,000	\$60,000			,
Information kiosks	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			William Willia
Tree Well	5K	EA	\$500	\$500	\$29,000	\$29,000	1	***************************************	Includes saw cut of 5' x5' hole, 2.5 cy amended soil, and concrete demo and hauling
	Ц.,					L			
			,						
					1002.11.1	Subtotals:	\$269,360	\$316,760	
						bilization cost:	\$26,936	\$31,676	i e e e e e e e e e e e e e e e e e e e
						Contingency:	\$53,872	\$63,352	1
TOTAL ANTICIPATED COST	a contract	l ia com	ang ann ng	iin de ce		% Design Fee	\$40,404	\$47,514	
	138683513	100000		aminasaana	entrine and con		\$390,572	\$459,302	

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

UCSF Case Study Cost Estimate

Description	Qty.	Unit	Low Unit \$	-	Low Price				
		對損				i i gi kwi maya			
Pedestrian Passages Through Building: 8 LF									
Pedestrian Infrastructure		ili (ili					\$9,000	\$12,000	144-1
Signage (Directional)	30	EA	\$300	\$400	\$9,000	\$12,000			
							···		
Pedestrian Amenities				MOLINE CIR		adin Glada.	50	S0	
TI' A C. A C. T.									
High Speed Elevator for 2 floors	1	EA	\$30,000.00	\$30,000,00	\$0	\$0			Estimates \$15,000 per floor. Not included in cost estimates because non-standard.
-									
						Subtotals:	59,000	\$12,000	

Subtotals:	59,000	\$12,000
10% Mobilization cost	\$900	\$1,200
20% Contingency	\$1,800	\$2,400
15% Design Fee	\$1,350	\$1,800
TOTAL ANTICIPATED COST	\$13,050	\$17,460

SF Square Foot

LS Lump Sum

""Cost Estimates based on 2005 prices

EA Each

LF Linear Foot

All items listed include installation costs

	Low	High
Hacienda Business Park Case Study 13150 LF		
Willow Road	\$4,617,728	\$6,243,439
Owens Drive at Wi	\$249,763	\$322,661
BART Parking Lot	\$285,882	\$464,638
Chabot Canal Imp	\$1,595,290	\$1,931,545
TOTAL ESTIMATED COST	\$6,748,663	\$8,962,283
COST PER LINEAR SQUARE FOOT	\$513	\$682

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Hacienda Business Park Case Study Cost Estimate

2 A 5 A 1 E 13 C	Willow Road through Park: \$800LF Pedestrian Infrastructure Audible Pedestrian Crossing Cues (Per Intersection) Automatic Pedestrian Detection			10,500 1850 1850					Subtotal	Notes & Assumptions
2 A 5 A 1 E 13 C	Pedestrian Infrastructure Audible Pedestrian Crossing Cues (Per Intersection)	A1 118	Ø144							
2 A 3 A 1 E 12 C	Audible Pedestrian Crossing Cues (Per Intersection)	100000000000000000000000000000000000000	15-022525555		186 (86) 85		02408401601614556	Marina Con		
1 E 12 C 13 C]		117711111111111111111111111111111111111		0120314-41111-1511	\$1,977,600	\$2,857,800	
1 E 12 C 13 C		4	EA	\$10,400	\$10,400	\$41,600	\$41,600			
2 C		4	EA	\$500	\$1,000	\$2,000	\$4,000			
3 (Bollards	12	EA	\$500	\$750	\$6,000	\$9,000			
_	Crosswalk Countdowns	4	EA	\$1.500	\$1,500	\$6,000	\$6,000			
4 (Crosswalk: Lighted Flashing	2	LS	\$100,000	\$120,000	\$200,000	\$240,000			
	Crosswalk: Raised above grade	2	EΑ	\$5,000	\$5,000	\$10,000	\$10,000			
	Landscaped Median	2.500	LF	\$200	\$400	\$500,000	\$1,000,000			
*****	Pedestrian-Level Street Lights	160	EA	\$3,000	\$5,000	\$480,000	\$800,000		***************************************	Estimate one every 30 LF both sides of street
8 P	Pedestrian Push Button Treatments	4	EA	\$1.300	\$1,300	\$5,200	\$5,200			
_	Pedestrian Refuge Island	2	EA	\$8,000	\$15,000	\$16,000	\$30,000			Assumes curb and median approximately 6' wide
	Signage (Post and Standard Sign vs. High Visibility)	12	ĒΑ	\$300	\$400	\$3,600	\$4,800			
9 \	Widened Sidewalks	8,840	LF	\$80	\$80	\$707,200	\$707,200			Includes demolition cost for curb removal, replacement and concrete for 3 SF of sidewalk
_					***************************************				***************************************	the state of the s
ľ	Pedestrian Amenities							\$1,207,040	\$1,448,020	
1 2	24" box Trees	300	EA	\$1,820	\$1.820	\$546,000	5516166			
_	Bench (6' Wide, includes installation)	38	EA	\$1,500	\$3,000	\$57,000	\$546,000		***************************************	Estimated one tree every 30 LF
_	Bike Racks (including installation)	58	EA	\$600	\$1,200	\$34,800	\$114,000 \$69,600	,		Estimate 2 every block
	Crosswalk: Stamped Colored Concrete	11.700	SF	\$10	\$1,200	\$117,000				6 per block
7	Gateway Features/Public Art	2	EA				\$175,500			13 crossings at 12' wide 75LF each.
	Information kiosks	3	EA.	\$12,000	\$24,000	\$24,000	\$48,000			
- 1	Planting at Bulb-outs			\$1,500	\$3,000	\$4,500	\$9,000			Bart Signage and Info kiosk at three major intersections
	Frash Cans	2,4(8)	SF	\$9	S9	\$21,600	\$21,600			24 bulbouts with 100SF of planters
_	Free Grates includes frame (4'x4')	58	EA	5800	\$1,500	\$46,400	\$87,000			Estimate 6 per every 600LF (one every 200LF both sides of street)
	Free Well	300	EA	\$680	\$750	\$204,000	\$225,000			
_		300	EA	\$500	\$500	\$150,000	\$150,000			
<u>- r</u>	Planters (concrete with soil and plants)	58	EA	\$30.00	\$40,00	\$1,740	\$2,320			Estimate 6 per block
			Ц.,							
							Subtotals:	\$3,184,640	\$4,305,820	
							oilization cost: Contingency:	\$318,464 \$636,928	\$430,582 \$861,164	

SF Square Foot

LS Lump Sum

15% Design Fee

\$645,873

\$4,617,728 \$6,243,439

***Cost Estimates based on 2005 prices

TOTAL ANTICIPATED COST

EA Each

Hacienda Business Park Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Owens Road: Intersection with Willows near BART									
Pedestrian Infrastructure							\$108,400	\$131,600	
Audible Pedestrian Crossing Cues (Per Intersection)	4	EA	\$10,400	\$10,400	\$41,600	\$41,600			
Automatic Pedestrian Detection	4	EA	\$500	\$1,000	\$2,000	\$4,000	****		-2-10-10-10-10-10-10-10-10-10-10-10-10-10-
Crosswalk Countdowns	4	EA	\$1,500	\$1,500	\$6,000	\$6,000		****************	
Crosswalk -Raised Above Grade	4	EA	\$5,000	\$5,000	\$20,000	\$20,000			
Pedestrian-Level Street Lights	10	EA	\$3,000	\$5,000	\$30,000	\$50,000		***************************************	Estimate one every 30 LF both sides of street
Pedestrian Push Button Treatments	4	EA	\$1,300	\$1,300	\$5,200	\$5,200			
Signage	12	EA	\$300	\$400	\$3,600	\$4,800		***************************************	
Pedestrian Ameuities		188014					\$63,850	\$90,925	
24" box Trees	20	EA	\$1,820	\$1,820	\$36,400	\$36,400		······	Estimated one tree every 30 LF
Bench (6' Wide, includes installation)	4	EA	\$1,500	\$3,000	\$6,000	\$12,000			Estimate 2 every block
Bike Racks (including installation)	12	EA	\$600	\$1.200	\$7,200	\$14,400			6 per block
Crosswalk: Stamped Colored Concrete	75	SF	\$10	\$15	\$750	\$1.125			13 crossings at 12' wide 75LF each.
Gateway Features/Public Art	1	ĒΑ	\$12,000	\$24,000	\$12,000	\$24,000	-1		
nformation kiosks	ı	ĒΑ	\$1,500	\$3,000	\$1,500	\$3,000			Bart Signage and Info kiosk at three major intersections

Subtotals:	\$172,250	\$222,525
10% Mobilization cost	\$17,225	
20% Contingency	\$34,450	\$44,505
15% Design Fee	\$25,838	\$33,379
TOTAL ANTICIPATED COST	\$249,763	\$322,661

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Hacienda Business Park Case Study Cost Estimate

Item Description	Qty.	Unit	Low Unit \$		Low Price	Price	Subtotal	Subtotal	Notes & Assumptions
BART Parking Lot 600LF							I		
Pedestriau Infrastructure	rionis.						\$113,400	\$161,800	
Concrete Paying Sidewalk (scored)	2.400	SF	\$8	\$10	\$19,200	\$24,000			Add sidewalk from intersection at Owens across parking lot
Crosswalk: Raised above grade	3	ΕA	\$5,000	\$5,000	\$15,000	\$15,000			The second at the second secon
Pedestrian-Level Lights	20	EA	\$3,000	\$5,000	\$60,000	\$100,000			Pedestrian lights 30' apart to mark way to BART
Signage	12	EA	\$300	\$400	\$3,600	\$4,800			Toward ng/10 - V aparte mark navio OAK!
Wheelchair Ramps (including warning surface pavers)	6	EA	\$2,600	\$3,000	\$15,600	\$18,000		··········	

Pedestrian Amenities							\$83,760	\$158,640	
Bike Racks (including installation)	5	EA	\$600	\$1,200	\$3,000	\$6,000			
Bollards	24	EA	\$500	\$750	\$12,000	\$18,000			
Crosswalk: Stamped Colored Concrete	576	SF	\$10	\$15	\$5,760	\$8,640			3 Crosswalks on raised grade 8' wide
Gateway Features (Public Art/Creek Overlooks)	5	ĒΑ	\$12,000	\$24,000	\$60,000	\$120,000		***************************************	The state of the s
Information Kiosks	2	EA	\$1,500	\$3,000	\$3,000	\$6,000			
						-1/////			
								<u></u>	
						C. Server	6107.160		

Subtotals: \$197,160 \$320,440 \$10% Mobilization cost \$197,16 \$320,044 \$10% Contingency \$339,432 \$544,088 \$15% Design Fec \$29,574 \$348,066 \$15% Design Fec \$29,574 \$348,068 \$15% Design Fec \$29,574 \$348

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each

Hacienda Business Park Case Study Cost Estimate

	Description	Qty.	Unit	Low Unit \$	High Unit \$		High Price	Subtotal	High Subtotal	
	Chabot Canal through Park: 6500LF	947200002488					Land II Vandell V Geller V V			
	Pedestriau Infrastructure							\$501,200	\$507,600	
1.1	Asphaltic Concrete	52,000	SF	\$9	\$9	\$468,000	\$468,000			Pathway on one side of canal 8' wide
1.22	Signage	24	EA	\$300	\$400	\$7,200	\$9,600			
1.28	Wheelchair Ramps	10	EA	\$2,600	\$3,000	\$26,000	\$30,000			includes demolition costs and repaving asphalt at cuts.
·····	Pedestrian Amenifies	li da li		janin ini.	in chicati		ina distribut	\$599,000	\$824,500	
2.2	Bench (6' Wide, includes installation)	15	EA	\$1,500	\$3,000	\$22,500	\$45,000			
2,3	Bike Racks (including installation)	10	EA	SGDO	\$1,200	\$6,000	\$12,000			
1.4	Bollards	40	EA	\$500	\$750	\$20,000	\$30,000			8 bollards at each intersection (4 per side)
2.7	Crosswalk: Stamped Colored Concrete	5.000	SF	\$10	\$15	\$50,000	\$75,000			Includes demo of existing asphaltic concrete and aggregate base.
2.8	Gateway Features (Public Art/Creek Overlooks)	- 5	EA	\$12,000	\$24,000	\$60,000	\$120,000			
2.12	Pedestrian Lights	44	ĒΑ	\$3,000	\$5,000	\$132,000	\$220,000			
2.13	Planting at path way	32,500	SF	\$9	\$9	\$292,500	\$292,500			Planted for 5' either side of path.
2.17	Trash Cans	20	EA	\$800	\$1,500	\$16,000	\$30,000			
			-						·····	
		L	Į.							

Subtotals;	\$1,100,200	\$1,332,100
10% Mobilization cost.	\$110,020	\$133,210
20% Contingency	\$220,040	\$266,420
15% Design Fee	\$165,030	\$199,815
TOTAL ANTICIPATED COST	\$1,595,290	\$1,931,545

SF Square Foot

LS Lump Sum

***Cost Estimates based on 2005 prices

EA Each